

Hurricane Ike

ESF – 10

Unified

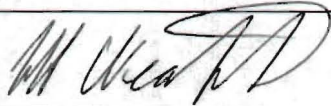
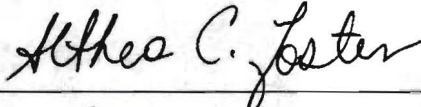
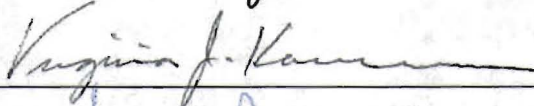
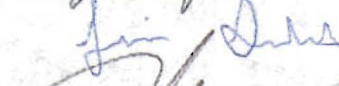

Incident Action Plan

(IAP)

Operational Period:

Starting: 0700 09/26/2008

Ending: 0700 09/29/2008

1. Incident Name R6 Hurricane Ike	2. Operational Period 0700 09/26/2008 through 0700 09/29/2008	ICS 202-EPA INCIDENT OBJECTIVES
3. Incident Objectives: <ol style="list-style-type: none"> 1. Ensure the health and safety of responders and the public by conducting operations in accordance with approved safety plan. 2. Conduct recon and assessment of impacted areas to identify targets for recovery and assessment of progress. 3. Maintain open coordination/communication with higher authorities. 4. Minimize environmental impacts from the releases of oil and hazardous material. 5. Coordinate with Federal, State, Tribal and local representatives. 6. Provide technical assistance to Drinking Water and Wastewater Treatment Plants. 7. Conduct collections and disposal of Orphan Containers, High Hazard Materials, and other such materials. 8. Conduct environmental sampling, as necessary, to assess the impact of releases of hazardous materials released during the storm. 9. Evaluate and determine impact to facilities posing a risk to the public. 10. Contain, recover, and remove spilled oil and hazardous materials as needed. 11. Keep stakeholders and the public informed of response activities. 12. Identify sensitive areas and threatened species in affected areas and establish protection based on risk analysis and trajectories. 		
4. Operational Period Command Emphasis: <ol style="list-style-type: none"> 1. Planning, organization and recon activities continue. 2. Initiate full staffing of Unified Command and Branch camps. 3. Continue ER/recovery operations of orphan containers 		
5. Prepared by: (Planning Section Chief)		Date / Time 9/26/08
6a. Approved by: (EPA Incident Commander)		Date / Time 9/26/08
6b. Approved by: (USCG Incident Commander)		Date / Time 9/26/08 0905
6c. Approved by: (TCEQ Incident Commander)		Date / Time 9/26/08 08:53
6d. Approved by: (TGLO Incident Commander)		Date / Time 9/26/08 0700
INCIDENT OBJECTIVES		ICS 202-EPA

Incident Name: R6 Hurricane Ike		Operational Period: 0700 09/24/2008 through 0700 09/26/2008		ICS 203-EPA Organizational Assignment List	
1. COMMAND			3. LOGISTICS Section		
COM IC	Althea Foster (EPA) Virginia Kammer (USCG) Jim Indest (TCEQ) Rich Arnhart (TGLO)	LOGS Section Chief	David Bradley (EPA) Chantelle Billiot (START) TBD (USCG)		
COM Deputy IC	Jim MacDonald (EPA) Nicole Bealle (TCEQ) Monica Rochester (USCG)	LOGS Field Team Leader	Chantelle Billiot (START)		
COM Safety Officer	David Eppler (EPA) Chad Hall (START)	LOGS Service Branch Chief	Eric Paisley (EPA)		
COM Public Information Officer	Janie Acevedo (EPA) TBD (USCG) TBD (USCG)	LOGS Medical Unit Ldr	Michael Baumann (EPA)		
COM Liaison Officer	Donn Walters (EPA)	LOGS Support Branch Chief	Lisa Bokun (EPA) Alma Horvath (EPA)		
COM Assistant Liaison Officer	TBD (EPA)	LOGS IT/Comms ERO Contractor	Geoff Hill (EPA Contractor)		
COM CISM	Beverly Negri (EPA)	LOGS IT/Comms ERO Contractor	Jose Cervantes (START)		
		LOGS Admin Assistant Documentation	Ellen Berry (EPA)		
		LOGS ERRS RMT	TBD		
2. PLANNING Section			4. FINANCE Section		
PLAN Section Chief	Jeff Weatherford (EPA)	FIN Section Chief	Kathleen Robinson (EPA)		
PLAN Section Deputy	Randy Schademann (EPA)	FIN Field Team Leader	Heth Parnell (START)		
PLAN START Field Team Leader	Curtis Vaughn (START)	FIN Cost Unit Leader	Cynthia Brown (EPA) Lucas Gravely (START) Ashley Tucker (USCG)		
PLAN Resources Unit Ldr	Curtis Franklin (START)				
PLAN Sit Unit Ldr	Scott Pieper (START)	FIN Time Unit Ldr	TBD (EPA) Brandon Westbrook (USCG) Lucas Gravely (START)		
PLAN Documentation Unit Ldr	Derek Ragan (EPA)	FIN Procurement Unit Ldr	Danny Newman (START) Larry Autry (USCG)		
PLAN Data Management Unit Leader	Karen Fuente (TCEQ)				
Bravo Branch PLAN Sit Unit Ldr	Greg Thomason (TCEQ) TBD (NOAA)				
Bravo Branch PLAN Resource Unit Ldr	Linda Spicklemier (START)				
Bravo Branch Documentation Unit Ldr	Matt Place (START)				
Bravo Branch Data Management Ldr	Matt Place (START)				
Charlie Branch Sit Unit Ldr	Michelle Mullin (START)				
Charlie Branch Resource Unit Ldr	Sheanna Davis (START)				
Charlie Branch Data Management Ldr	Ping Wang (START)				

Incident Name: R6 Hurricane Ike		Operational Period: 0700 09/24/2008 through 0700 09/26/2008		ICS 203-EPA Organizational Assignment List (Continued)	
5. OPERATIONS Section					
OPS Section Chief		Nic Brescia (EPA) Ryan Dickson (USCG)		Heth Parnell (START) John Foster (ERRS)	
OPS Deputy Section Chief		Jon Rinehart (EPA) Bill Penland (START)			
Alpha Branch Director		Eric Nold (EPA) Jeremy Altendorf (USCG)		Hilary Gafford (START) Bob Brock (TCEQ) TBD (TGLO) Kenneth Shewmake ASO (EPA)	
Alpha Branch ER Recovery Group Sup		Manuel Schmaedick (EPA)		Alpha Branch Group RP Removal Team 2 Leader Chris Vannater (USCG)	
Alpha Branch ER Recovery Team 1 Leader		Manuel Schmaedick (EPA)		Alpha Branch Group RP Removal Team 3 Leader Brad Lindsey (USCG)	
Alpha Branch ER Recovery Team 2 Leader		Susan Fisher (EPA)		Alpha Branch Group RP Removal Team 4 Leader Allison Miller (USCG)	
Alpha Branch ER Recovery Team 3 Leader		Steve Wilkes (USCG)		Alpha Branch Group RP Removal Team 5 Leader Matt Anderson (USCG)	
Alpha Branch Recon Group Sup		Eric Nold (EPA) Brownie Kuk (USCG)		Alpha Branch Environmental Assessment Sup Eric Nold (EPA)	
Alpha Branch Recon Group Recon Team 1		Clarence Jackson (EPA)		Alpha Branch Environmental Assessment Group Air Monitoring Team 1 Ray Anderson (START)	
Alpha Branch Recon Group Recon Team 2		L.C. Miner (EPA)			
Alpha Branch Recon Group Recon Team 4		Burris (USCG)		Alpha Branch Environmental Assessment Group Air Monitoring Team 2 Tim Borman (START)	
Alpha Branch Recon Group Recon Team 5		Anderson (USCG)			
Alpha Branch Recon Group Recon Team 6		Wagner (USCG)		Alpha Branch Infrastructure Group Sup Dawn Ison (EPA)	
Alpha Branch Recon Group Recon Team 7		Brewer (USCG)		Alpha Branch Infrastructure Group Drinking Water Team 1 Bill Davis (EPA) TBD (TCEQ)	
Alpha Branch Staging Area Leader		TBD (ERRS RM)		Alpha Branch Infrastructure Group Drinking Water Team 2 Andy Waite(EPA) TBD (TCEQ)	
Alpha Branch Removal Team Group Sup		Fitzgerald (USCG)		Alpha Branch Infrastructure Group Drinking Water Team 3 Damon McElroy (EPA) TBD (TCEQ)	
Alpha Branch Removal Group Fund Lead Division Sup		Fitzgerald (USCG)		Alpha Branch Infrastructure Group WWTP Water Team 1 Mike Tillman (EPA) TBD (TCEQ)	
Alpha Branch Group Fund Lead Removal Team 1 Leader		Mitchell Priest (USCG)		Alpha Branch Infrastructure Group WWTP Water Team 2 Brian Mueller (EPA) TBD (TCEQ)	
Alpha Branch Group Fund Lead Removal Team 2 Leader		John Joeckel (USCG)		Alpha Branch Infrastructure Group WWTP Water Team 3 Alan Vaughn (EPA) TBD (TCEQ)	
Alpha Branch Group Fund Lead Removal Team 3 Leader		David Leitingner (USCG)		Alpha Branch Infrastructure Group WWTP Water Team 4 Mike Williams (EPA)	
Alpha Branch Group Fund Lead Documentation Team (FPN)		Kevin Beck (USCG)		Alpha Branch Infrastructure Group WWTP Team 5 James Eng (EPA)	
Site Assessment Team		Kenneth Brockhouse (USCG)		Alpha Branch Infrastructure Group WWTP Team 6 Jim Gold (EPA)	

Incident Name:		Operational Period:		ICS 203-EPA	
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R6 Hurricane Ike	0700 09/24/2008 through 0700 09/26/2008	Organizational Assignment List (Continued)	
5. OPERATIONS Section			
Bravo Branch Director	Eric Delgado (EPA) Pete Zauner (USCG) David McCarty (START) Tom Erny (TCEQ) J. T. Ewing (TGLO) Lushan Hannal ASO (USCG)	Charlie Branch Director	Joe Davis (EPA) Jody Dillon (START) Jeff Lewellin (TCEQ) TBD (TGLO) Derek Hardy ASO (USCG)
Bravo Branch ER/Recovery Group Sup	Eric Delgado (EPA)	Charlie Branch Recon Group Sup	Jeff Kunze (TCEQ)
Bravo Branch ER/Recovery Team 1	Mark Hayes (EPA)	Charlie Group Recon Team 1 Leader	Matt Smith (START)
Bravo Branch ER/Recovery Team 2	Jhana Enders (EPA)	Charlie Group Recon Team 2 Leader	Dennis Crowl (START)
Bravo Branch ER/Recovery Team 3	Darrell Greep (USCG)	Charlie Group Recon Team 3 Leader	Mike McAteer (EPA)
Bravo Branch ER/Recovery Team 4	Inactive	Charlie Group Recon Team 4 Leader	Rebecca Ayers (START)
Bravo Branch Staging Area	Don Edgington (ERRS)	Charlie Group Recon Team 5 Leader	John Dougherty (START)
Bravo Branch Recon Group Supr	Brad Benggio (NOAA)	Charlie Group Recon Team 6 Leader	Gary McCoig (START)
Bravo Branch Removal Group Sup	Eric Delgado (EPA)		
Bravo Branch Removal Team 1	Johnny Darcy (TGLO) MST3 Schad (USCG) MK1 Rick Mantici (USCG)	Charlie Branch Recovery Group Sup	Joe Davis (EPA)
Bravo Branch Removal Team 2	MST3 Cory McDoughal (USCG) MK2 Moore (USCG) Jim Williams (TGLO)	Charlie Group Recovery Team 1 Leader	Travis Prater (TCEQ)
		Charlie Group Recovery Team 2 Leader	Cain Cline (TCEQ)
Bravo Branch Removal Team 3	LJG Phillip Nail (USCG) 1 NOAA: TBD 1 State: TBD	Charlie Group Recovery Team 3 Leader	Chris Mayben (TCEQ)
		Charlie Group Recovery Team 4 Leader	Paul Gorman (TCEQ)
		Charlie Group Recovery Team 5 Leader	Kara Allen (TCEQ)
		Charlie Group Staging Team	Jeff Kunze (TCEQ) (OMI)
		Charlie Group Recovery ER Group Sup	Jeff Lewellin (TCEQ) Gary Moore (EPA)
		ER Team 1	Jeff Kunze (TCEQ) TBD (OMI)
		ASPECT Air Recon Branch Director	Mark Thomas (EPA)
		Environmental Sampling Branch Director	Brenda McCaleb (START)
		Vessel Assessment Branch Director	Tim Whalen
		Air Ops Branch Director	Cromwell (USCG)
Prepared By: Curtis Franklin (START) (Resource Unit Leader)		Date/Time: 9/25/2008 2000 hours	

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch ASPECT Air Recon Branch		2. Division/Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 0700 09/28/2008		
5. Operations Personnel					
Operations Chief		Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor	
Branch Director		Mark Thomas (EPA) 816-718-4271			
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator		Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks
ASPECT Coordination Team		Mark Thomas	816-718-4271	1	TBD
7. Work Assignments Provide aerial reconnaissance utilizing the specialized ASPECT aircraft to support operational response. Coordinate with ESF-10 response operations.					
8. Special Instructions (prepared by ASO) Refer to Job Hazard Analysis for Aircraft Operations.					
9. Communications (radio and/or phone contact numbers needed for this assignment) Team personel shall communicate by cell phones.					
Prepared by (Resource Unit Ldr.) John Penland		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 9/25/08	Time 0900

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Infrastructure Branch		2. Division/Group Drinking Water Group	
3. Incident Name R6 Hurricane Ike			4. Operational Period 09/26/2008 0700 hours – 09/28/2008 0700 hours		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA): 214-789-8383		Division/Group Supervisor	Bill Davis (EPA): 214-316-7865	
Branch Director	Dawn Ison (EPA): 972-974-2075				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
DW Team 1	Bill Davis (EPA)	214-316-7865	2	Pasadena, TX ICP	
DW Team 2	Andy Waite (EPA)	214-587-7959	2	Pasadena, TX ICP	
DW Team 3	Damon McElroy (EPA)	214-490-3571	2	Pasadena, TX ICP	
7. Work Assignments					
<p>Prioritize, assess, and provide technical assistance to public drinking water systems in the impacted area. Coordinate with state agencies.</p> <p>Receive daily assessment targets and team assignments from TCEQ at TCEQ Region 12 office during morning TCEQ operations briefing.</p>					
8. Special Instructions					
Refer to Job Hazard Analysis for Recon/Observation Operations					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phone.					
Prepared by (Resource Unit Ldr.) John Penland (DOSC START)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 9/25/08	Time 1045

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Infrastructure Branch		2. Division/Group Wastewater Group	
3. Incident Name R6 Hurricane Ike			4. Operational Period 09/26/2008 0700 hours – 09/28/2008 0700 hours		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA): 214-789-8383		Division/Group Supervisor	Mike Tillman (EPA): 214-681-6587	
Branch Director	Dawn Ison (EPA): 972-974-2075				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
WWTP Team 1	Mike Tillman (EPA)	214-681-6587	2	Pasadena, TX ICP	
WWTP Team 2	Brian Mueller (EPA)	214-681-6089	2	Pasadena, TX ICP	
WWTP Team 3	Alan Vaughn (EPA)	214-707-4226	2	Pasadena, TX ICP	
WWTP Team 4	Mike Williams (EPA)	713-409-9505	2	Pasadena, TX ICP	
WWTP Team 5	James Eng (EPA)	713-385-6774	2	Pasadena, TX ICP	
WWTP Team 6	Jim Gold (EPA)	713-705-1324	2	Pasadena, TX ICP	
7. Work Assignments					
<p>Prioritize, assess, and provide technical assistance to wastewater systems in the impacted area. Coordinate with state agencies. Receive daily assessment targets and team assignments from TCEQ at TCEQ Region 12 office during morning TCEQ operations briefing.</p>					
8. Special Instructions					
Refer to Job Hazard Analysis for Recon/Observation Operations					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phone.					
Prepared by (Resource Unit Ldr.) John Penland (DOSC START)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 9/25/08	Time 1035

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Vessel Assessment Branch		2. Division/Group SERT/Admin Group	
3. Incident Name R6 Hurricane Ike			4. Operational Period 09/26/2008 0700 hours – 09/28/2008 0700 hours		
5. Operations Personnel					
Operations Chief		Nicolas Brescia (EPA): 214-789-8383		Division/Group Supervisor	
Branch Director		Tim Whalen (USCG): 414-731-4450			
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator		Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks
SERT/Admin Group		Andy Lawrence	202-327-0165	2	Pasadena, TX ICP
7. Work Assignments					
Maintain/update status of active vessel assessment cases. Prepare case packages for passing on to appropriate agencies for further actions.					
8. Special Instructions					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phone					
Prepared by (Resource Unit Ldr.) John Penland (DOSCE START)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 9/25/08	
				Time 1020	

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Air Ops Branch		2. Division/Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 0700 09/28/2008		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor		
Branch Director	Drew Cromwell (USCG) 214-532-7140				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Air Tactical Supervisor	CPO Whitecotton	818-292-0535	1	IKE-3 Ellington Field	
N96117 B-206B	J.G. Metcher	479-236-3838	1	IKE-3 Ellington Field	
193 EH AS-350B2	Dennis Dorsey	918-671-5893	2	IKE-3 Ellington Field	
108 AG Koala	Dennis Dorsey	918-671-5893	2	IKE-3 Ellington Field	
7. Work Assignments					
<p>Support Branch Recon and Removal operations by providing mission dependent air support. Determine aerial platform needs based on special operational requirements (video, passenger transport, etc.) Coordinate with ESF-10 response operations.</p> <p>N96117 B-206B: Assist operational reconnaissance missions by providing targeted over flights of land based targets and video recording capabilities.</p> <p>108 AG Koala: Assist operational reconnaissance by providing targeted over flights of land and water based targets. Assist operational removal missions by providing air transport to observation teams.</p> <p>193 EH AS-350B2: Assist operational reconnaissance by providing targeted over flights of land and water based targets. Assist operational removal missions by providing air transport to observation teams.</p>					
8. Special Instructions (prepared by ASO)					
Refer to Job Hazard Analysis for Aircraft Operations					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Pilots will follow communication protocols established by their contracting agencies.					
Prepared by (Resource Unit Ldr.) John Penland (DOSC START)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/2008	Time 0900

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Environmental Sampling		2. Division/Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 0700 09/28/2008		
5. Operations Personnel					
Operations Chief		Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor	
Branch Director		Brenda McCaleb (START) 713-256-9566			
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator		Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks
Environmental Sampling Team		Brenda McCaleb	713-256-9566	2	Pasadena, TX ICP
7. Work Assignments					
Provide environmental sampling support to response operations. Coordinate with ESF-10 response operations.					
Collect environmental samples of the orphaned and abandoned container staging areas within Alpha and Bravo Branches in accordance with the EPA approved sampling plan.					
8. Special Instructions (prepared by ASO)					
Refer to Job Hazard Analysis for Sampling and Job Hazard Analysis for Characterization.					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Team personnel shall communicate by cell phones.					
Prepared by (Resource Unit Ldr.) John Penland		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 9/25/08	Time 0900

ICS 204-EPA DIVISION ASSIGNMENT LIST	1. Branch Alpha Branch (Pasadena/Houston)		2. Division/Group ER/Recovery Group		
3. Incident Name R6 Hurricane IKE			4. Operational Period 09/26/2008 0700 hours - 09/29/2008 0700 hours		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383	Division/Group Supervisor	Manual Schmaedick (EPA OSC) 816- 806-2534		
Branch Director	Eric Nold (EPA) 816-718-4274/Jeremy Altendorf (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/ Remarks	204a Attached
ER/Recovery Team 1	Manual Schmaedick (EPA OSC): 816-806-2534	START Tom Walzer: 713-705-1467 5 ERRS (TBD)	7	Pasadena IMT	
ER/Recovery Team 2	Susan Fischer (EPA OSC): 816-718-4285	START CathyTremblay: 603-325-6910 5 ERRS (TBD)	7	Pasadena IMT	
ER/Recovery Team 3	Steve Wilkes (USCG): 251-680-8630	START Kelli Lucarino: 609-721-3916 5 ERRS (TBD)	7	Pasadena IMT	
Staging Area	1 ERRS RM (TBD)	TBD	1	Location TBD	
7. Work Assignments					
Team 1: Mobilize set crew and equipment to Oak Island/Chambers County area and begin recovering targets listed from Response Manager					
Team 2: Anahauc/Chambers County					
Team 3: San Leon/Galveston County					
Staging Area: Prep pad once staging area location is identified, and mobilize ERRS RM.					
Document any additional targets into Response Manager including "special equipment" requirements					
8. Special Instructions					
Report to the situation unit leader to report any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phones, or satellite phones, until radio communications are established.					
Prepared by (Resource Unit Ldr.) Eric Nold (EPA Branch Director)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/2008	Time 1100

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Alpha Branch (Pasadena/Houston)		2. Division/Group Recon Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 09/26/2008 0700 hours - 09/29/2008 0700 hours		
5. Operations Personnel					
Operations Chief		Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor Brownie Kuk (USCG) 609-351-8503	
Branch Director		Eric Nold (EPA) 816-718-4274/ Jeremy Altendorf (USCG)			
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/ Remarks	204a Attached
Recon Team 1	Clarence Jackson (EPA): 832-414-8431	Alvaro Fernandez (START): 915-637-8785 Chad Sample (CST): 402-326-1428 Nick Kemp (CST): 402-326-1429	4	Pasadena IMT	
Recon Team 2	L.C.Miner (EPA): 281-889-8531	Gerald Almquist (START): 713-865-0505 Ken Lonowski (CST): 402-326-1426 Mitch Adkins (CST): 402-326-1413	4	Pasadena IMT	
Recon Team 3	Martin Kelly (TCEQ): 713-412-4377	Sharon Barker (START): 713-213-2394 Landon Koopman (CST): 402-326-1430 Morehouse (CST)	4	Pasadena IMT	
Recon Team 4	James Burris (USCG): 251-680-9174	Carroll (USCG): 757-274-5046 Jarrod Redwine (START): 806-946-9564	3	Pasadena IMT	
Recon Team 5	Robert Anderson (USCG): 251-680-9137	Alaniz (CG): 225-436-8536 Eric Ledeman (START): 484-354-0215	3	Pasadena IMT	
Recon Team 6	Ray Wagner (USCG): 954-540-9838	Lewis (USCG): 910-620-5436 Chris Windham (START): 806-831-8527	3	Pasadena IMT	
Recon Team 7	Kirk Brewer (USCG): 252-267-4811	Linda Vasse (USCG): 713-816- 4846 TBD: (CST) TBD: (CST)	4	Pasadena IMT	
7. Work Assignments Target high impact communities and document search areas based on GIS grid pattern. Safely assess and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment. Coordinate with EPA ESF-10 response operations.					
8. Special Instructions Report to the situation unit leader to report any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately					
9. Communications (radio and/or phone contact numbers needed for this assignment) Report to GRP/SUP every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips, trips and falls.					
Prepared by (Resource Unit Ldr.) Eric Nold (EPA Branch Director)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/08	Time 1100 hours

ICS 204-EPA DIVISION ASSIGNMENT LIST	1. Branch Alpha Branch (Pasadena/Houston)		2. Division/Group Removal Group – Fund Lead		
3. Incident Name R6 Hurricane Ike		4. Operational Period 09/26/2008 0700 hours – 09/28/2008 0700 hours			
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383	Division/Group Supervisor	Dustin Fitzgerald (USCG): 251-680-9215		
Branch Director	Eric Nold (EPA): 816-718-4274/Jeremy Altendorf (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Fund Lead Removal Team 1	Mitchell Priest (USCG): 808-258-7025	Scott McClan (USCG): 706-975-0141	2	Pasadena IMT	
Fund Lead Removal Team 2	John Joeckel (USCG): 603-828-5034	John Lowman (USCG): 225-436-8502 Rich Forte (USCG): 207-992-7000 Dave Moser (USCG): 203-241-8122	4	Pasadena IMT	
Fund Lead Removal Team 3	David Leitingner (USCG): 609-558-0790	Chris Cowie (USCG): 419-392-0319	2	Pasadena IMT	
Fund Lead Documentation Team (FPN)	Kevin Beck (USCG): 207-400-9616	Kassandra Cinatl (USCG): 409-682-1264 Guillermo Holmes (USCG): 832-256-7210 John Barnes (USCG): 251-680-8352	4	Pasadena IMT	
7. Work Assignments Fund Lead: Safely assess and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment. Coordinate with EPA ESF-10 response operations.					
8. Special Instructions Report to the situation unit leader to report any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.					
9. Communications (radio and/or phone contact numbers needed for this assignment) Teams shall communicate by cell phones, or satellite phones, until radio communications are established.					
Prepared by (Resource Unit Ldr.) Eric Nold (EPA Branch Director)	Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/2008	Time 1100 hours	

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Alpha Branch (Pasadena/Houston)		2. Division/Group Removal Group – RP Lead	
3. Incident Name R6 Hurricane Ike			4. Operational Period 09/26/2008 0700 hours – 09/29/2008 0700 hours		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383	Division/Group Supervisor	Dustin Fitzgerald (USCG): 251-680-9215		
Branch Director	Eric Nold (EPA): 816-718-4274/ Jeremy Altendorf (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Site Assessment Team	Kenneth Brockhouse (USCG): 630-336-0278	Tom Simkins(USCG): 443-622-3504 Tim Buckley (USCG): 516-297-1226	3	Pasadena IMT	
RP Lead Removal Team 2	Chris Vannater (USCG): 617-816-0757	Matt Gilbert (USCG): 518-361-2820	2	Pasadena IMT	
RP Lead Removal Team 3	Brad Lindsey (USCG): 251-680-9775	Rick Merritt (USCG): 843-297-7016	2	Pasadena IMT	
RP Lead Removal Team 4	Allison Miller (USGS): 631-747-5064	Ramon Calvo (USGS): 206-850-6703	2	Pasadena IMT	
RP Lead Removal Team 5	Matt Anderson (USCG): 251-680-9137	Daniel Lilly (USCG): 757-469-6360 David UHL (USGS): 607-372-3162	3	Pasadena IMT	
7. Work Assignments RP Fund: Safely assess and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment. Coordinate with EPA ESF-10 response operations.					
8. Special Instructions Report to the situation unit leader to report any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.					
9. Communications (radio and/or phone contact numbers needed for this assignment) Teams shall communicate by cell phones, or satellite phones, until radio communications are established.					
Prepared by (Resource Unit Ldr.) Eric Nold (EPA Branch Director)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/2008	Time 1100 hours

ICS 204-EPA DIVISION ASSIGNMENT LIST	1. Branch Alpha Branch (Pasadena/Houston)		2. Division/Group Environmental Assessment Group		
3. Incident Name R6 Hurricane IKE		4. Operational Period 09/26/2008 0700 hours - 09/29/2008 0700 hours			
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383	Division/Group Supervisor	Eric Nold (EPA OSC)		
Branch Director	Eric Nold (EPA) 816-718-4274/ Jeremy Altendorf (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Air Monitoring Team 1	Ray Anderson (START): 713-594-3255	Maggie Doheny-Skubic (START): 708-829-0732	2	Pasadena IMT	
Air Monitoring Team 2	Tim Borman (START): 847-363-4919	Jennifer Nutini (START): 906-370-1232	2	Pasadena IMT	
7. Work Assignments Inactive					
8. Special Instructions Report to the situation unit leader to report any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.					
9. Communications (radio and/or phone contact numbers needed for this assignment) Teams shall communicate by cell phones, or satellite phones, until radio communications are established.					
Prepared by (Resource Unit Ldr.) Eric Nold (EPA Branch Director)	Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/25/2008	Time 1100hours	

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Bravo (Port Arthur)		2. Division/Group Recon Group (Air Recon)	
3. Incident Name R6 Hurricane IKE			4. Operational Period 09/26/2008 0700 hours – 09/29/2008 0700 hours		
5. Operations Personnel					
Operations Chief		Nicolas Brescia (EPA) (214) 789-8383		Division/Group Supervisor	
Branch Director		Eric Delgado (EPA) 214-437-9809/ Pete Zauner (USCG)		Eric Delgado (EPA) 214-437-9809	
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator		Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks
Air Recon Team		Brad Benggio (NOAA SOC) (1 START)	Brad Benggio 206-849-9923 START Brendan Hughes 832-367-9260	2	BRAVO MCP @ 0700
7. Work Assignments					
Safely access and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment.					
Air Recon Team Perform Aerial Recon of Wildlife Management Areas (Chambers County)					
8. Special Instructions (prepared by ASO)					
Report to the situation unit leader any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.					
In cases where an EPA OSC is not on Team, USCG is performing Contractor Oversight. START and ERRS shall not take direction from USCG.					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phones or satellite phones, until radio communications are established.					
Prepared by (Branch Director) Eric Delgado (EPA OSC) 214-437-9809		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/24/2008	Time 1900

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Bravo (Port Arthur)		2. Division/Group ER/Recovery Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 1900 09/29/2008		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) (214) 789-8383		Division/Group Supervisor	Eric Delgado (EPA) 214-437-9809	
Branch Director	Eric Delgado (EPA) 214-437-9809/ Pete Zauner (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
ER/Recovery Team 1	Mark Hayes (EPA OSC) 2 START/7 ERRS/1 TCEQ/1 CST	Mark Hayes 214-232-7134 START Lindsay Reeve 713-410-8552 START David McCarty 214-926-8475	12	BRAVO MCP @ 0700	
ER/Recovery Team 2	Jhana Enders (EPA OSC) 1 START/4 ERRS/ 1 TCEQ/1 USCG	Jhana Enders 214-789-9654 START Jeff McCully 214-686-4191	8	BRAVO MCP @ 0700	
ER/Recovery Team 3	Darrell Greep (USCG) 1 START/4 ERRS/1 TCEQ	Darrell Greep 609-351-8513 START Kevin Bate 248-978-6890	7	BRAVO MCP @ 0700	
Staging Area Team 1	Don Edgington (ERRS) 6 ERRS	251-406-0220	6	BRAVO MCP @ 0700	
7. Work Assignments					
<p>Safely access and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment. Coordinate with EPA ESF-10 response operations.</p> <p><i>Team specific instructions are added here.</i></p> <p>ER/Recovery Team 1) Conduct emergency response and recovery of orphan containers as directed by Branch Directors (Jefferson County). Sabine Pass.</p> <p>ER/Recovery Team 2) Conduct emergency response and recovery of orphan containers as directed by Branch Directors (Orange County).</p> <p>ER/Recovery Team 3) Conduct emergency response and recovery of orphan containers as directed by Branch Directors (Jefferson County).</p> <p>Staging Area Team 1) Layout and construct temporary holding cell for orphan drums and containers</p>					
8. Special Instructions (prepared by ASO)					
<p>Report to the situation unit leader any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.</p> <p>In cases where an EPA OSC is not on Team, USCG is performing Contractor Oversight. START and ERRS shall not take direction from USCG.</p>					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phones or satellite phones, until radio communications are established.					
Prepared by (Branch Director) Eric Delgado (EPA)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/24/2008	Time 1900

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Bravo (Port Arthur)		2. Division/Group Removal Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/25/2008 – 0700 09/29/2008		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) (214) 789-8383		Division/Group Supervisor	Eric Delgado (EPA) 214-437-9809	
Branch Director	Eric Delgado (EPA) 214-437-9809/ Pete Zauner (USCG)				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Removal Team 1	Johnny Darcy (TGLO) MST3 Schad (USCG) MK1 Rick Mantici (USCG)	Johnny Darcy (TGLO) 409-659-9014 MST3 Schad (USCG) 480-388-5636 MK1 Rick Mantici (USCG) 609-351-8523	3	BRAVO MCP @ 0700	
Removal Team 2	MST3 Cory McDoughal (USCG) MK2 Moore (USCG) Jim Williams (TGLO)	Cory McDoughal (USCG) 409-719-5044 MK2 Moore (USCG) 609-351-8517 Jim Williams (TGLO) 409-659-9014	3	BRAVO MCP @ 0700	
Removal Team 3	LJG Phillip Nail (USCG) 1 NOAA: TBD 1 State TBD	LJG Phillip Nail 409-719-1607 TBD TBD	3	BRAVO MCP @ 0700	
7. Work Assignments					
<p>Safely access and manage response activities related to oil spills and hazardous materials releases. Coordinate activities with other Federal, state, local and private sector partners to protect life, stabilize the incident, safeguard property and preserve the environment. Coordinate with EPA ESF-10 response operations.</p> <p>Removal Team 1) Monitor PRP removal operations as directed by Branch Directors (Sabine Port Authority, HOPE, High Island, and Papco)</p> <p>Removal Team 2) Monitor PRP removal operations as directed by Branch Directors (Square Mile, Exxon, R&R, Petro Chemical, Bessie Heights)</p> <p>Removal Team 3) Assess Facilities for Emergency Response Closure</p>					
8. Special Instructions (prepared by ASO)					
<p>Report to the situation unit leader any signs of the above situations every hour. If cell phones cannot make calls utilize text messaging. Maintain situational awareness at all times, be mindful of slips trips and falls. Observe hazardous situations from a safe distance, if unsure of a hazardous environment consider it extremely hazardous and pass information so hazmat group can respond appropriately.</p> <p>In cases where an EPA OSC is not on Team, USCG is performing Contractor Oversight. START and ERRS shall not take direction from USCG.</p>					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Teams shall communicate by cell phones or satellite phones, until radio communications are established.					
Prepared by (Branch Director) Eric Delgado (EPA)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date 09/24/2008	Time 1900

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Charlie		2. Division/Group Recon Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 1900 09/29/2008		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor	Jeff Kunze (TCEQ) (512) 789-8557	
Branch Director	Jeff Lewellin (TCEQ) (512) 796-1216 Gary Moore (EPA) (214) 789-1627				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Recon Team 1	6 th CST Kuykendall Matt Smith (START) Carol McGrath (TCEQ)	(512) 233-9332 (281) 638-3875 (367) 633-1525	3	Galveston MCP @ 0800	
Recon Team 2	6 th CST Delano Dennis Crowl (START)	(512) 233-9331 (361) 441-4763	2	Galveston MCP @ 0800	
Recon Team 3	Roger Bennett (TCEQ) Barbara Beymon (TCEQ) Mike McAteer (EPA)	(361)537-7919 (361)774-3369 (214)354-9371	3	Scholes Airport @ 1030	
Recon Team 4	6 th CST Longoria Rebecca Ayres (START)	(512) 992-5798 (281) 770-7604	2	Galveston MCP @ 0800	
Recon Team 5	6 th CST Hickman John Dougherty (START)	(512) 233-9318 (469) 644-2477	2	Galveston MCP @ 0800	
Recon Team 6	6 th CST Garcia Gary McCoig (START)	(512) 233-9337 (361) 779-0399	4	Galveston MCP @ 0800	
7. Work Assignments					
Recon Team 1 Continue survey/recon in B4,B11,B5,B10. Work in concert with Recovery Team 4 Recon Team 2: Continue survey/recon B14, B2, B13. Work in concert with Recovery Team 3. Recon Team 3: Conduct detailed aerial recon of Beach and Marsh areas of Galveston ,Bolivar, Pelican Island, San Louis Pass, to Brazos River, and ICW. Do Gulf and Bay side. Recon Team 4: Continue survey/recon in B3, B12. Work in concert with Recovery Team 1 Recon Team 5: Complete survey/recon of B6, B7. Upon completion, assist Recon Team 4 and Recovery Team 1. Recon Team 6: Assist Recon Team 2 and Recovery Team 3..					
8. Special Instructions					
CST check in hourly for progress report / communications check. Notify command for instructions when each assigned area is completed as redirection may be necessary.					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
Intraagency sat phone Talk Group 2 Long Range Comms VTAC 11 – VTAC 1 151.1375 156.7TX					
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date	Time

ICS 204-EPA DIVISION ASSIGNMENT LIST		1. Branch Charlie		2. Division/Group ER/Recovery Group	
3. Incident Name R6 Hurricane IKE			4. Operational Period 0700 09/26/2008 – 1900 09/29/2008		
5. Operations Personnel					
Operations Chief	Nicolas Brescia (EPA) 214-789-8383		Division/Group Supervisor	Jeff Kunze (TCEQ) (512) 789-8557	
Branch Director	Jeff Lewellin (TCEQ) (512) 796-1216 Gary Moore (EPA) (214) 789-1627				
6. Resources Assigned					
Strike Team/Task Force/ Resource Designator	Leader	Contact Info. #	# of Persons	Reporting Info/Notes/Remarks	204a Attached
Recovery Team 1	Travis Prater (TCEQ) Dan Lytle (OMI)	(512) 537-7916 (281) 830-7062	5	Galveston MCP @ 0800	
Recovery Team 2	Cain Cline (TCEQ) Les Hart (OMI)	(325) 656-4409 (281) 830-4943	5	Galveston MCP @ 0800	
Recovery Team 3	Chris Mayben (TCEQ) Matt Snyder (OMI)	(325) 234-5695 (832) 435-0748	5	Galveston MCP @ 0800	
Recovery Team 4	Paul Gorman(TCEQ) Blake Milor (OMI)	(817) 675-4236	5	Galveston MCP @ 0800	
Recovery Team 5	Kara Allen (TCEQ) Cliff Thompson (OMI)	(817) 929-2827	5	Galveston MCP @ 0800	
ER Team1	Jeff Kunze (TCEQ)	(512) 789-8557	1	Galveston MCP @ 0800	
Staging Team 1	Jeff Kunze (TCEQ)	(512) 789-8557	1	Galveston MCP @ 0800	
7. Work Assignments					
<p>Recovery Team 1: Continue recovery in B3 and proceed on to B12. Work in concert with Recon Team 4.</p> <p>Recovery Team 2: Continue recovery in A6 and proceed to A7. Recovery team 5 will assist.</p> <p>Recovery Team 3: Continue B14 and proceed to B2,B13 Work in concert with Recon Team 2.</p> <p>Recovery Team 4: Continue recovery in B4 and proceed to B11, B5, B10 Work with Recon Team 1.</p> <p>Recovery Team 5: Assist Recovery Team 2 in A5,A6,A7</p> <p>ER Team 1: Conduct ERs or Special Item Recovery as directed by TCEQ.</p> <p>Staging Team 1: Prepare staging area for receipt of containers, categorization, bulking, and disposal.</p>					
8. Special Instructions					
<p>Provide update to command on progress by 12:00 pm.</p> <p>Recover all containers 5 gallon or greater that have contents.</p> <p>After assignments are complete, please contact and assist other team(s).</p>					
9. Communications (radio and/or phone contact numbers needed for this assignment)					
<p>Intraagency sat phone Talk Group 2 Long Range Comms</p> <p>VTAC 11 – VTAC 1 151.1375 156.7TX</p>					
Prepared by (Resource Unit Ldr.)		Approved by (Planning Sect. Ch.) Jeff Weatherford (EPA)		Date	Time

RECON & SITE OBSERVATION ACTIVITIES (DAILY OPS)**TASK HAZARD ANALYSIS (THA)
NATURAL DISASTER SCENERIO****EPA-START****EPA REGION 6****Date: June 2007****Task Description**

This task hazard analysis refers the process of daily operations occurring in the field. This THA should be used on addition to any THA for specific tasks in the field.

Chemical Hazards	Physical Hazards	Biological Hazards	Radiological Hazards
Unknown	Electrical Hazards Driving Hazards Inclement Weather Stress/Fatigue Heat/Cold Stress Structural Instability (buildings/roads) Fire Explosions	<ul style="list-style-type: none">• Poisonous plants• Animals, dogs• Snakes• Insects• Mosquitoes• Sewage• contaminated water	Unknown

Minimum PPE	Other Equipment
Minimum Training	First aid/BBP kit, Fire extinguisher, Cell phone, cell phone booster, Power Inverter Radio, Spare tire and fix-a-flat, Jumper cables, Water (minimum 1 bottle per hour planned to work), GPS, Map, Emergency Flares, Flash Light, spare batteries, Bottled water, nonperishable foods, such as granola bars and/or MREs, rain gear In cold climates a blanket/person, matches or lighters and towels, extra socks, and gloves. Snake chaps in brush recon activities*
40 Hour HAZWOPER	

Applicable FLD/ OSHA REGS	Safety Considerations
<p>Get your Tetanus Booster - within 5 years if working in flood conditions</p> <p>Electrical - Avoid any downed power lines, particularly those in water. Watch for frayed wiring or sparks, or if there is an odor of something burning but no visible fire</p> <p>Hyperthermia/heat-related problems, including heat stroke, heat exhaustion, heat cramps, and fainting. Drink plenty of fluids, wear light-colored, loose- fitting clothing, avoid caffeine, and DO NOT WAIT TO GET THIRSTY.</p> <p>STRESS/FATIGUE Follow work/rest ration 2:1; do not drive Fatigue dulls concentration and slows reaction time. If possible, take breaks to stretch your body. Drink plenty of water (it will be hot).</p> <p>ACCOUNTABILITY - CHECK IN or PHONE IN when you are expected to arrive.</p> <p>Public - Be aware that sleeplessness, anxiety, anger, hyperactivity, mild depression, or lethargy are normal responses from victims.</p>	

Monitoring Procedures

-General Monitoring requirements for unknown environments may apply:
Identify IDLH conditions and or exposures over PELs (OVA – chemical specific meters H2S, CO)
Flammable or explosive atmospheres (Combustible gas indicators)
Oxygen-deficient atmospheres (Oxygen Meter)
Exposures over radiation dose limits (rad meter)
Initial Monitoring
Gas and dust monitors

TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6

Date: September 2006

TASK NAME

CHARACTERIZATION

TASK DESCRIPTION

This task hazard analysis refers to characterization of unknown household hazardous waste.

CHEMICAL EXPOSURE HAZARDS

- Flammables
- Corrosives
- Acids
- Organic / Inorganic
- Oxidizers

MINIMUM PPE

Level B (downgrade based on sampling results and Safety Professional approval)

- High-visibility reflective safety vest
- ANSI approved hardhat.
- ANSI approved safety glasses.
- ANSI approved steel toe safety shoes/boots.
- Supplied air respirator (SCBA or airline)
- Protective chemical gloves (inner & outer), coveralls (tyvek® QC), and rubber boots/booties when potential exists for contact with impacted materials (all seams must be taped/sealed)

OTHER SAFETY EQUIPMENT

- First aid kit
- Fire extinguisher
- Tyvek, booties, or similar chemical protective suit when contact with impacted materials exists.
- Air Purifying Respirator with GME/P100 cartridges for Level C upgrade/downgrade
- Leather outer gloves when handling drums, operating powered equipment, etc.
- Non-sparking tools (intrinsically safe equipment)
- Intrinsically safe communications
- Ventillation Hood

PHYSICAL HAZARDS

- Long working hours
- Long travel distances (times)
- Heavy lifting
- Heat Stress
- Fire/explosion
- Heavy lifting (objects over 49 pounds)
- Slips/trips/falls/protruding objects

APPLICABLE OPERATIONAL SAFETY PROCEDURES

- SH&E 201, General Safety Rules
- SH&E 301, Hazwoper
- SH&E 404, Manual Materials Handling
- SH&E 406, Drum Sampling
- SH&E 407, Tank and Large Container Sampling
- SH&E 601, Hazardous Materials Shipping
- SH&E 604, Decontamination
- SH&E 606, Flammable and Combustible Materials

ADDITIONAL SAFETY CONSIDERATIONS

1. Buddy System – 49# rule – get mechanical or personnel assistance if objects are in excess of 49#.
2. Take frequent breaks to hydrate. Rest in shaded areas.
3. Use berming / diking to contain any potential spills in segregation areas.
4. Separate incompatibles (never transport, consolidate, or store incompatible chemicals together).
5. Ergonomics (repetitive tasks involving the same movements) – take breaks to stretch and change movements
6. Store containers out of direct sunlight to prevent bulging and bursting of containers.
7. Containers that are bulging will be assumed to be pressurized and extremely hazardous to handle. Remove screw-on caps slowly to release pressure. Close immediately if liquid begins to escape. Bulging containers without screw-on caps will be opened remotely.
8. Use caution when handling glass sampling devices. Do not pry or push drum thieves into materials.

MONITORING PROCEDURES

Continually monitor with PID/FID and 4-gas meter and observe action levels in Section 6 of HASP. All instruments must be calibrated prior to use. Pay special attention to monitors if material is spilled/leaking.

TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6
Date: September 2006

TASK NAME

CONTAINER HANDLING AT STAGING AREAS

TASK DESCRIPTION		CHEMICAL EXPOSURE HAZARDS
<p>This task hazard refers to the handling and staging of chemicals (known/unknown) as the drums/containers/cylinders arrive at a central staging area for segregation and preparation for disposal. Wastes anticipated to be encountered include: corrosives, acids, flammables, and unknowns. All known products will be staged in respective compatible staging areas. Unknowns will be taken to a secured exclusion zone for haz-catting (See separate THA for Hazcatting).</p>		<ul style="list-style-type: none"> • Unknowns • Flammables • Corrosives/caustics • Acids (hydrofluoric, ect.) • Organic / Inorganic • Oxidizers
MINIMUM PPE	OTHER SAFETY EQUIPMENT	PHYSICAL HAZARDS
<p>Modified Level D (upgrade to Level C/B per HASP monitoring requirements)</p> <ul style="list-style-type: none"> • High-visibility reflective safety vest • ANSI approved hardhat. • ANSI approved safety glasses. • ANSI approved steel toe safety shoes/boots. • Tyvek, booties, or similar chemical protective suit when contact with impacted materials exists. • Nitrile gloves (minimum 2 inner and 1 outer heavy duty) <p>Upgrade (Level C/B) based on START's monitoring results</p>	<ul style="list-style-type: none"> • Leather gloves when handling sharp object or operating powered equipment • First aid kit • Fire extinguisher • Cell Phone or radio communications • GME/P100 cartridges for Level C upgrade • Snake Chaps • Respiratory protection 	<ul style="list-style-type: none"> • Traffic (heavy equipment and other vehicles) • Debris Piles (with sharp edges) • Long working hours • Long travel distances (times) • Heavy lifting • Heat Stress • Drum handling • Slip/trip/falls • Pinch points / sharp edges
APPLICABLE OPERATIONAL SAFETY PROCEDURES		ADDITIONAL SAFETY CONSIDERATIONS
<ul style="list-style-type: none"> • SH&E 116, Driver and Vehicle Safety • SH&E 201, General Safety Rules • SH&E 301, HAZWOPER • SH&E 404, Manual Materials Handling • SH&E 405, Handling Drums and Large Containers • SH&E 408, Unknown Hazardous Waste Drum Handling • SH&E 505, Powered Hand Tools • SH&E 506, Manual Hand Tools • SH&E 513, Heavy Equipment 		<ol style="list-style-type: none"> 1. Buddy System – 49# rule – get mechanical or personnel assistance if objects are in excess of 49#. 2. Take frequent breaks to hydrate. Rest in shaded areas. 3. Sunblock SPF 15 or higher 4. Bugspray *Containing DEET 5. Always carry communications (cell phone or radio, and check in frequently) 6. Use spotters when parking (especially in tight quarters). 7. Use berming / diking to contain any potential spills in segregation areas. 8. Separate incompatibles (never transport, consolidate, or store incompatible chemicals together). 9. Ergonomics (repetitive tasks involving the same movements) – take breaks to stretch and change movements 10. Hygiene – wash hands and face frequently (especially prior to initiating any hand to mouth contact) 11. Smoke only in approved areas 12. Ensure contact/communication is made when working around heavy equipment
MONITORING PROCEDURES		
<p>START will perform monitoring. In the Event START cannot perform this function, Earth Tech will obtain equipment and conduct monitoring in accordance with the chemical hazards that are anticipated at each individual site. 4-gas and PID monitoring will be IAW section 6 of the HASP.</p>		

U.S. EPA/EQM ERRS Hurricane IKE Emergency Response Team

Back To Basics Program

Prepared by: Scott Berndt, CHMM, CDRM

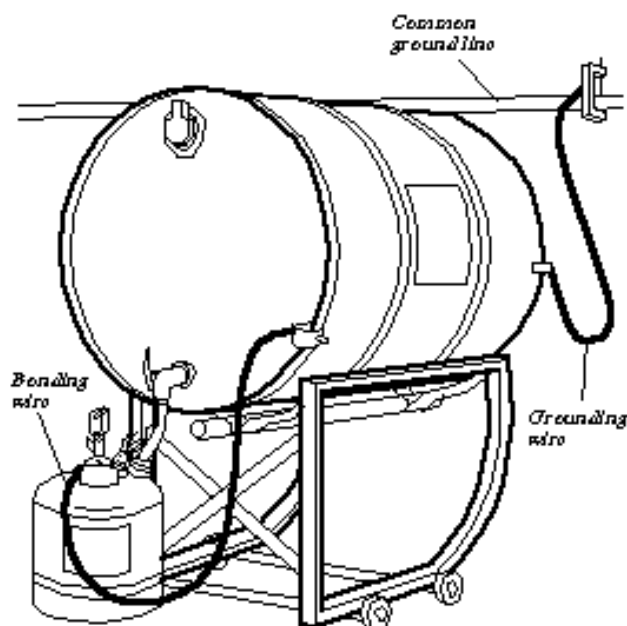
Bonding and Grounding of Flammable Liquid Transfer

The process of bonding and grounding can be defined as providing an electrically conductive pathway between a dispensing container, a receiving container, and an earth ground.

This pathway eliminates the buildup of static electricity and allows it to safely dissipate into the ground. The Code of Federal Regulations, 29 CFR 1910.106(e)(6)(ii), and the Uniform Fire Code, UFC Div. VIII, Sec. 79.803(a), state, "Class I liquids shall not be run/dispensed into containers unless the nozzle and container are electrically interconnected. This means that all containers of Class I liquids (liquids with a flash point lower than 100 degrees Fahrenheit) need to be bonded and grounded during dispensing.

Some common examples of Class I liquids include alcohol, toluene, acetone and benzene. The flash point can be found on the material safety data sheet (MSDS) that accompanies the chemical from the manufacturer or distributor.

Example: Drum to Container



TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6

Date: September 2006

TASK NAME

FIELD OPERATIONS (DRUM/CYLINDER/CONTAINER RECOVERY & TRANSPORTATION)

TASK DESCRIPTION

Task involves the recovery of drums, cylinders, containers, etc. located throughout the affected area. The field ops include the use of ATVs, bobcats, forklifts, and various equipment. Areas are limited to areas adjacent to roadways, debris lines, and open fields (including urban areas).

CHEMICAL EXPOSURE HAZARDS

- Unknowns
- Flammables
- Corrosives/caustics
- Acids (hydrofluoric, ect.)
- Organic / Inorganic
- Oxidizers

PPE

Modified Level D (when handling drums/cylinders/containers in the field)

- High-visibility reflective safety vest
- ANSI approved hardhat.
- ANSI approved safety glasses.
- ANSI approved steel toe safety shoes/boots with steel shank.
- Snake chaps
- Poly-coated Tyvek (QC, etc.)
- Hearing protection

Upgrade (Level C/B) based on START's monitoring results

OTHER SAFETY EQUIPMENT

- Fire extinguisher
- Leather outer gloves when handling drums/ammunition/glass/sharps, operating powered equipment, etc.
- Non-sparking tools (intrinsically safe equipment)
- Communications (radios /cell phones, etc.)
- Decontamination area
- Site fluids
- PFD (Coast Guard Approved) when working near water

PHYSICAL HAZARDS

- Flying debris, hazardous noise, lacerations/burns
- Cuts/lacerations (handling of sharp objects, operating powered tools/equipment, etc.)
- Heavy lifting (objects over 49 pounds)
- Equipment traffic (forklift, street traffic, etc.)
- Slips/trips/falls/protruding objects
- Heat stress / humidity
- Unstable materials (drums, debris, etc.)
- Fire/explosion
- Working near water
- Heavy equipment
- ATV ops (local traffic)
- Snakes, gators, etc.

APPLICABLE OPERATIONAL SAFETY PROCEDURES

- SH&E 201, General Safety Rules
- SH&E 205, Emergency Action Planning and Prevention
- SH&E 301, Hazardous Waste Operations (HAZWOPER)
- SH&E 404, Manual Materials Handling
- SH&E 604, Decontamination
- EPA 001, Hours / Days Worked Policy

ADDITIONAL SAFETY CONSIDERATIONS

1. Be aware of trip/slip/fall hazards and holes/sumps, etc.
2. Ensure ATV operators are wearing state approved helmet when operating. No ATV ops at night.
3. Decontamination procedures
4. Ensure equipment operator communicates with ground troops.

MONITORING PROCEDURES

START will perform monitoring. In the Event START cannot perform this function, Earth Tech will obtain equipment and conduct monitoring in accordance with the chemical hazards that are anticipated at each individual site. 4-gas and PID monitoring will be IAW section 6 of the HASP.

TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6

Date: September 2006

PARAMETER	LOCATION AND INTERVAL	RESPONSE LEVEL (Meter units/ppm above background)	RESPONSE
Unknown Hydrocarbons	Prior to initial entry in to impacted areas and then at least every 30 minutes afterwards in the worker's breathing zone or in the immediate work area. Confined spaces will require initial and continuous monitoring.	≥ 10 (5 minutes continuous)	Cease work, exit the area, contact the SSO or SH&E Manager and upgrade to Level B.
Oxygen Levels (multi-gas detector or O ₂ meter)	In the breathing zone/work area within the confined space prior to and continuously during entry or in the immediate work area during intrusive activities involving impacted materials.	19.5 – 23.5 percent (%) O ₂	Continue work and monitoring. If significant changes exist in this acceptable range, contact the SSO to investigate the potential for contributing factors.
		< 19.5 or > 23.5 percent (%) O ₂	Cease work, exit the work area or confined space and contact the SSO.
Carbon Monoxide	In the breathing zone/work area prior to and during operation of equipment with combustion motors.	< 25 ppm	Continue work and monitoring. If significant changes exist in this acceptable range, contact the SSO to investigate the potential for contributing factors.
		≥ 25 ppm	Cease work, exit the work area or confined space and contact the SSO.
Hydrogen Sulfide (multi-gas detector or individual H ₂ S meter)	In the breathing zone/work area within the confined space prior to and continuously during entry or in the immediate work area during intrusive activities involving impacted materials.	< 10 ppm	Continue work activities. If significant changes exist in this acceptable range, contact the SSO to investigate the potential for contributing factors.
		≥ 10 ppm	Cease work, exit the area or confined space, and contact the SSO.
Explosive Atmospheres (multi-gas detector or CGI)	In the breathing zone/work area prior to and during entry in to container/drum, impacted work area or confined space.	< 10% LEL	Continue work activities. If significant changes exist in this acceptable range, contact the SSO to investigate the potential for contributing factors.
		$\geq 10\%$ LEL	Cease work, exit the area or confined space, and contact the SSO.

**TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6**

Date: September 2006

TASK NAME

CHARACTERIZATION (HAZCATTING/SAMPLING)

TASK DESCRIPTION		CHEMICAL EXPOSURE HAZARDS
This task hazard analysis refers to characterization/sampling/hazcatting of unknown drums/containers located at the staging areas.		<ul style="list-style-type: none"> • Unknowns • Flammables • Corrosives/caustics • Acids (hydrofluoric, ect.) • Organic / Inorganic • Oxidizers
MINIMUM PPE	OTHER SAFETY EQUIPMENT	PHYSICAL HAZARDS
Level B (downgrade based on sampling results and Safety Professional approval) <ul style="list-style-type: none"> • High-visibility reflective safety vest • ANSI approved hardhat. • ANSI approved safety glasses. • ANSI approved steel toe safety shoes/boots. • Supplied air respirator (SCBA or airline) • Protective chemical gloves (inner & outer), coveralls (tyvek[®] SL), and rubber boots/booties when potential exists for contact with impacted materials (all seams must be taped/sealed) • Leather gloves 	<ul style="list-style-type: none"> • First aid kit • Fire extinguishers • Tyvek, booties, or similar chemical protective suit when contact with impacted materials exists. • Air Purifying Respirator with GME/P100 cartridges for Level C upgrade/downgrade • Non-sparking tools (intrinsically safe equipment) • Intrinsically safe communications • Ventillation Hood 	<ul style="list-style-type: none"> • Long working hours • Long travel distances (times) • Heavy equipment/vehicle traffic • Heat Stress • Fire/explosion • Heavy lifting (objects over 49 pounds) • Slips/trips/falls/protruding objects

APPLICABLE OPERATIONAL SAFETY PROCEDURES	ADDITIONAL SAFETY CONSIDERATIONS
<ul style="list-style-type: none"> • SH&E 124, Heat Stress Prevention Program • SH&E 201, General Safety Rules • SH&E 301, HAZWOPER • SH&E 404, Manual Materials Handling • SH&E 406, Drum Sampling • SH&E 407, Tank and Large Container Sampling • SH&E 601, Hazardous Materials Shipping • SH&E 604, Decontamination • SH&E 606, Flammable and Combustible Materials 	<ol style="list-style-type: none"> 1. Buddy System – 49# rule – get mechanical or personnel assistance if objects are in excess of 49#. 2. Take frequent breaks (refer to SH&E 124 for work-rest schedule requirements) to hydrate. Take heart rate pulse at beginning and end of each rest period and evaluate according to SH&E 124 requirements. Rest in shaded areas. 3. Use berming / diking to contain any potential spills in segregation areas. 4. Separate incompatibles (never transport, consolidate, or store incompatible chemicals together). 5. Ergonomics (repetitive tasks involving the same movements) – take breaks to stretch and change movements 6. Drums or containers that are bulging will be assumed to be pressurized and extremely hazardous to handle. These containers will be opened by remote devices or back hoe operated spike. 7. Use caution when handling glass sampling devices. Do not pry or push drum thieves into materials. Only break sampling devices in Level B PPE. 8. Review site-specific Emergency Action Plan and procedures for site emergencies (e.g., fire, chemical exposure, spill, etc.). 9. Review symptoms of chemical exposure. If symptoms occur, evacuate area and notify supervisor.

MONITORING PROCEDURES

Continually monitor with PID/FID and 4-gas meter and observe action levels in Section 6 of HASP. All instruments must be calibrated prior to use. Pay special attention to monitors if material is spilled/leaking.

**TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6**

Date: September 2006

TASK NAME

BULKING/OVERPACKING

TASK DESCRIPTION

This task hazard analysis refers to bulking of compatible materials into drums/containers and overpacking of drums for disposal. These materials must be characterized by a chemist or chemical technician prior to bulking.

CHEMICAL EXPOSURE HAZARDS

- Flammables
- Corrosives/caustics
- Acids (hydrofluoric, ect.)
- Organic / Inorganic
- Oxidizers

MINIMUM PPE

Level C (up/downgrade based on sampling results and Safety Professional approval)

- High-visibility reflective safety vest
- ANSI approved hardhat.
- ANSI approved safety glasses.
- ANSI approved steel toe safety shoes/boots.
- Air Purifying Respirator with GME/P100 cartridges for Level C
- Protective chemical gloves (inner & outer), coveralls (tyvek® SL), and rubber boots/booties when potential exists for contact with impacted materials (all seams must be taped/sealed)
- Leather gloves

Upgrade to Level B based on STARTs monitoring results

OTHER SAFETY EQUIPMENT

- First aid kit
- Fire extinguishers
- Supplied air respirator (SCBA or airline) for chemicals posing major health threat
- Non-sparking tools (intrinsically safe equipment)
- Intrinsically safe communications
- Splash shield if Full Face APR is not used

PHYSICAL HAZARDS

- Long working hours
- Long travel distances (times)
- Heavy equipment/vehicle traffic
- Heat Stress
- Pinch points
- Splash
- Fire/explosion
- Heavy lifting (objects over 49 pounds)
- Slips/trips/falls/protruding objects

APPLICABLE OPERATIONAL SAFETY PROCEDURES

- SH&E 124, Heat Stress Prevention Program
- SH&E 201, General Safety Rules
- SH&E 301, HAZWOPER
- SH&E 404, Manual Materials Handling
- SH&E 405, Handling Drums and Large Containers
- SH&E 601, Hazardous Materials Shipping
- SH&E 604, Decontamination
- SH&E 606, Flammable and Combustible Materials

ADDITIONAL SAFETY CONSIDERATIONS

1. Consult chemist and safety professional for respiratory protection requirements while consolidating materials.
2. Do not use hands to guide drums into overpacks.
3. Buddy System – 49# rule – get mechanical or personnel assistance if objects are in excess of 49#.
4. Take frequent breaks (refer to SH&E 124 for work-rest schedule requirements) to hydrate. Take heart rate pulse at beginning and end of each rest period and evaluate according to SH&E 124 requirements. Rest in shaded areas.
5. Use berming / diking to contain any potential spills in segregation areas.
6. Separate incompatibles (never transport, consolidate, or store incompatible chemicals together).
7. Ergonomics (repetitive tasks involving the same movements) – take breaks to stretch and change movements
8. Review site-specific Emergency Action Plan and procedures for site emergencies (e.g., fire, chemical exposure, spill, etc.).
9. Review symptoms of chemical exposure. If symptoms occur, evacuate area and notify supervisor.

MONITORING PROCEDURES

Continually monitor with PID/FID and 4-gas meter and observe action levels in Section 6 of HASP. All instruments must be calibrated prior to use. Pay special attention to monitors if material is spilled/leaking.

TASK HAZARD ANALYSIS (THA)
NATURAL DISASTERS SCENARIO
REGION 6

Date: September 2006

TASK NAME

AIRCRAFT OPERATIONS

TASK DESCRIPTION

This task hazard analysis refers to the use of aircraft during the process of an emergency response to a disaster. This applies primarily to EPA and Contractor personel as passengers in fixed wing and rotorcraft type aircraft during flight operations over both land and water.

CHEMICAL EXPOSURE HAZARDS

- Aviation fuel

MINIMUM PPE

Level D – Once at the project site

- Ear Protection
- ANSI approved hardhat.
- ANSI approved safety glasses(tinted during bright sunlight).
- ANSI approved steel toe safety shoes/boots.

OTHER SAFETY EQUIPMENT

- First aid kit
- Fire extinguisher
- Cell Phone or radio communications
- Flashlight
- Maps

PHYSICAL HAZARDS

- Equipment hazards (spinning rotors and/or propellers, airport and/or street traffic, etc.)
- Long working hours
- Long travel distances (times)
- Illumination (travel pre-dawn and post dusk)
- Parking (tight quarters)

APPLICABLE OPERATIONAL SAFETY PROCEDURES

- SH&E 116, Driver and Vehicle Safety
- SH&E 201, General Safety Rules

ADDITIONAL SAFETY CONSIDERATIONS

1. Get proper sleep prior to traveling. If you are tired, postpone travel, or travel with a companion.
2. Enroute to airport, no travel through unsecured areas will be permitted without a buddy system.
3. Check State Police website prior to travel to review road closures and hazards.
4. Inspect personal vehicles PRIOR to travel to airport to verify they are in good operating condition (complete vehicle inspection checklist)
5. Always let supervisor know when and where you are traveling.
6. Always carry communications (cell phone or radio, and check in when possible)
7. When in or near aircraft, follow directions of Pilot In Command at all times.
8. Never exit aircraft while rotors or propellers are moving.

MONITORING PROCEDURES

Monitoring is not anticipated for this task.

Task Name: RECONNAISSANCE, RECOVERY & SAMPLING

**TASK HAZARD ANALYSIS (THA)
WATER OPERATIONS
EPA REGION 6
Date: May 2008**

TASK NAME

SAMPLING

Task Description

This task hazard analysis refers the process of Recon, Recovery and/or Sampling which involves water operations. This THA should be used in addition to any THA for specific tasks in the field.

Chemical Hazards	Physical Hazards	Biological Hazards	Radiological Hazards
Unknown – incident specific (see HASP)	Drowning Inclement Weather Stress/Fatigue Heat/Cold Stress Injury from falling into the water (slips, trips, falls) Water conditions (water level too high or low, currents, subsurface obstructions) Operation of vessel (proper training for use of boat)	<ul style="list-style-type: none">• Poisonous plants (while getting in and out of boat)• Animals, alligators• Snakes• Insects• Mosquitoes	Unknown

Minimum PPE	Other Equipment
-USCG-approved Personal Flotation Device-one type I, II, III, or IV for each person (Class A-less than 16 feet) One type I, II, or III for each person plus one Type IV available to be thrown (Class 1 – 16 feet to less than 26 feet) - appropriate footwear - clothing to provide protection from extremes of heat and cold - water resistant outer garment	-First aide kit -Fire extinguisher -Cell phone -Radio -BBP kit -Maps -Water -GPS -Binoculars -Signaling device (whistle, bell) -Visual distress signals
Minimum Training	
40 Hour HAZWOPER If operating the boat – proper training and/or license for type/size of boat being used	

Applicable FLD/ OSHA REGS	Safety Considerations
-FLD 02 Inclement Weather -FLD 05 Heat Stress Prevention & Monitoring -FLD 06 Cold Stress -FLD07 Wet Feet -FLD 10 Manual Lifting of Heavy Objects -FLD 15 Remote Areas -FLD18 Operation and Use of Boats -FLD 19 Working Over or Near Water -FLD 22 Heavy Equipment Operation -FLD 32 Fire Extinguisher -FLD41 Hand and Emergency Signals -FLD 44 Biological Hazard	ACCOUNTABILITY - CHECK IN or PHONE IN when you are expected to arrive. Public - Be aware that sleeplessness, anxiety, anger, hyperactivity, mild depression, or lethargy is normal for response from victims. Hyperthermia /heat-related problems, including heat stroke, heat exhaustion, heat cramps, and fainting. Drink plenty of fluids, wear light-colored, loose- fitting clothing, avoid caffeine, and DO NOT WAIT TO GET THIRSTY . STRESS/FATIGUE Follow work/rest ration 2:1; do not drive Fatigue dulls concentration and slows reaction time. If possible, take breaks to stretch your body. Drink plenty of water (it will be hot). Avoid the following: 1.Overloading, overpowering, and improper trim, 2.High speed turns, especially in rough water, 3.failure to keep a sharp lookout for obstructions, 4.Going out in bad weather,5.standing in a moving boat, 6.having too much weight too high in the boat, 7. leaks in the fuel system, 8. going too far offshore

Sampling Procedures

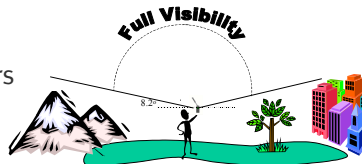
Sampling apparatus and equipment should be weighted and the weight marked on the outside surface for convenience in balancing the load in a boat. I will also make it easier to calculate the total load being placed in a boat and to avoid overloading. In figuring the load on the boat, remember to add the estimated weight of samples to be gathered on the trip.



WORLD COMMUNICATION CENTER
GLOBAL SATELLITE COMMUNICATIONS



1 LINE-OF-SIGHT Need a clear view of sky, outdoors and away from buildings and tall structures for optimal call quality and minimal dropped calls.



2 ROTATE ANTENNA Rotate antenna upwards into the 45 degree position to either the left or right and fully extend.

Make sure your antenna "clicks" into place. If you have to hold it manually in position, the antenna has been released and is not locked in. While the antenna is rotated down, press the button atop the unit again and insert antenna completely.



3 TURN PHONE ON Press and hold After a series of power-on messages, wait for the phone to register (**Registered**); you will see a and a as indicators of a successful registration. To force register, press .

4 PLACE A CALL You must enter the phone number in an international format. [International Access Code] [Country Code] [Phone Number] and press OK .

EXAMPLE ONE To call a US phone number from the satellite phone (choose one):

00	1	480.857.6656
+	1	480.857.6656
↑	↑	↑
	USA Country Code	Phone Number
International Dialing Prefix		

EXAMPLE TWO To another satellite phone from the satellite phone (choose one):

00	881	6.214.55555
+	881	6.214.55555
↑	↑	↑
	Iridium Country Code	Phone Number
International Dialing Prefix		

Hold down the key to see a (+) sign appear on the display

5 RECEIVE A CALL

- Phone must be powered on and registered, otherwise the call will be forwarded to voicemail
- The phone will chirp until you rotate and extend the antenna, after which point it will ring.
- Display will show 'Answer?' Press OK
- To end any call, Press

6 CHECK VOICEMAIL

- Press 'Message Key' on Iridium satellite phone
- A message 'Call Voicemail' Select? will appear, press OK
- The satellite phone number will appear (i.e. +881621455555) Call? Press OK
- Interrupt voicemail greeting by pressing *
- Wait for prompt to enter password - Last 7 digits of your satellite phone number

HELPFUL NUMBERS:

TECHNICAL SUPPORT
AVAILABLE 24x7x365:

Direct: 480.857.6656

Toll Free: 800.211.2575

Toll Free from
Satellite Phone: 6111

PIN Number: 1111

TWO-STAGE DIALING:

480.768.2500

VOICEMAIL:

Press 'Message Key'

Password: Last (7) digits of the phone number

KEY INDICATORS:

Signal Strength Indicator

Battery Charge Indicator






Message Indicator

Satellite Mode Indicator


Successful Register Indicator

No Service

7 CHECK TEXT MESSAGE

- Press 'Message Key' on Iridium satellite phone 
- Using the scroll key, scroll to 'Received Messages' Select?, press OK 
- Screen will show quantities of all messages, highlight Text messages, press OK  to read text messages
- Note: the Iridium network will attempt delivery for 2 days. After this time, you must initiate delivery of the message by manually registering the phone  . If not picked up, messages are automatically deleted from the Iridium Network after 8 days

HELPFUL TEXT HINTS:


You can use the keypad to produce any letter in the alphabet. For example, press  to enter letters:

Press 1 time for an A








Press 2 times for a B

Press 3 times for a C

Press 4 times for a 2

To delete a character, press the 'Scroll Key' to scroll the cursor to the right of the character you want deleted and press  to delete one character at a time. Hold it down to clear the entire message

8 SEND A TEXT MESSAGE

- Press the 'Message Key' on the Iridium satellite phone 
- Use the Scroll Key to select the 'Message Editor' and press OK 
- Enter the destination email address, e.g. leslie@iridium.com. To get the @ symbol, press the  seven times
- Enter a blank space by pressing  twice, or the down arrow on the Scroll Key twice
- Enter body of message (up to 160 characters including e-mail address) and press OK 
- Select 'Send Message' by pressing the OK key. 
- When the 9505A handset asks for the destination number, enter +*2 (see step 4 on how to get a '+' sign), and press OK 
- The 9505A will display 'Sending Message' for a few seconds and the display 'Message Sent' if the message was successfully delivered to the Iridium SMS center.



TROUBLESHOOTING 101

UNABLE TO MAKE CALLS FROM SATELLITE PHONE

- Make sure the power is on.
- Make sure the SIM card is inserted correctly
- Antenna needs to be pushed in all the way (not flopping around) and fully extended.
- Calls need to be made in clear line of sight to the satellites – you should be outdoors.
- If signal is weak, move to an open space with clear line of sight. Force register by pressing the up arrow key, then pressing the '8' key.
- Make sure there is no error message.

UNABLE TO RECEIVE CALLS TO SATELLITE PHONE

- Verify all of the above.
- Verify that the ringer is not turned off. Press menu key, then arrow over to 'Phone set-up'. Press 'ok'. Press menu key again, to 'Adjust Ring Volume', then press 'ok'. Press up arrow to increase, and down arrow to decrease volume.

DISPLAY MESSAGES

- Searching – The phone is attempting to establish connection to the satellite network.
- Rotate Antenna or Orient Antenna – You also hear a tone when you see these messages. Extend antenna upward and make sure you have a clear line of sight.
- Registering – Your phone is registering with the network. When the process is complete, you will see 'Registered'.
- Insert Card – Power off your phone; make sure your SIM card is inserted completely; then power your phone on again.
- Check Card – This message indicates that the SIM card is damaged or inserted incorrectly.
- Access Denied... Unregistered SIM – This error message indicates the service to the IRIDIUM handset has been denied.

BATTERY RELATED MESSAGES

- Not Available – The battery meter doesn't appear because the battery is not installed; the phone is operating on external power.
- Charging Battery – The battery is being charged. The battery icon flashes regardless if the phone is powered on or off.
- Fast Charge Completed – The battery charging is complete. The battery icon stops flashing, and display reads "Fast Charge Complete."
- Invalid Battery – You have an unapproved battery inserted in your phone. You are able to discharge battery, but you cannot recharge it.



ICS 205a-EPA Phone List

Position	Agency	Name	Site #	Cell #	Work #
COMMAND Section					
COM IC	EPA	Althea Foster	214-789-1572	214-789-1572	
COM Deputy IC (Region 7)	EPA	Jim McDonald	816-718-4283	816-718-4283	
COM IC	USCG	Virginia Kammer	251-776-2793	251-776-2793	
COM Deputy IC	USCG	Monica Rochester	TBA	TBA	
COM IC	TCEQ	Jim Indest	TBA	713-540-8603	
COM Deputy IC	TCEQ	Nicole Bealle	TBA	TBA	
COM IC	TGLO	Rich Arnhart	TBA	281-470-6597	
COM Safety Officer	EPA	David Eppler	214-733-4676	214-733-4676	214-665-6529
COM Safety Officer (START)	EPA-Contractor	Chad Hall	713-826-5670	713-826-5670	
COM Safety Officer (ASO)		Kenneth Shewmake	972-765-7885	972-765-7885	
COM Information Officer	EPA	Janice Acevedo	214-665-8185	469-222-7810	214-665-2120
COM Information Officer	USCG	Brandon Brewer	214-665-8185	214-665-8185	
COM Information Officer	USCG	Lawrence Chambers	252-267-3662	252-267-3662	
COM Liason Officer	EPA	Donn Walters	214-665-6483	214-542-1070	214-665-6483
COM CISM	EPA	Beverly Negri	214-665-8157	TBA	214-665-8157
PLANNING Section					
PLAN Section Chief (Region 7)	EPA	Jeff Weatherford	636-288-9656	636-288-9656	
PLAN Section Deputy Chief (Region 7)	EPA	Randy Schademann	913-669-5478	913-669-5478	
PLAN START Field Team Leader	EPA-Contractor	Curtis Vaughn	512-632-2768	512-632-2768	
PLAN Tech Specialist	NOAA	Ed Levine	206-849-9941	206-849-9941	
PLAN Sit Unit	EPA – Contractor	Scott Pieper	541-948-5480	541-948-5480	
PLAN Sit Unit	EPA – Contractor	Janine Polinko	610-416-9584		
PLAN Sit Unit	EPA-Contractor	Vineeth Viswanathan	646-825-0911	646-825-0911	
PLAN Sit Unit - Charlie	EPA – Contractor	Michelle Mullins	773-351-0606	773-351-0606	
PLAN Sit Unit - Charlie	EPA – Contractor	Gary McCoig	TBA	TBA	
PLAN Sit Unit - Charlie	EPA - Contractor	Dennis Crowl	TBA	TBA	
PLAN Sit Unit - Charlie	EPA – Contractor	John Dougherty	TBA	TBA	
PLAN Sit Unit - Bravo	EPA – Contractor	Greg Thomasson	512-417-5543		

ICS 205a-EPA Phone List

Position	Agency	Name	Site #	Cell #	Work #
Planning (Cont)					
PLAN Resource Unit	EPA – Contractor	Curtis Franklin	817-229-1222	817-229-1222	
PLAN Resource Unit	EPA – Contractor	Vanessa Miller	TBA	281-723-7711	
PLAN Resource Unit – Bravo	EPA – Contractor	Linda Spicklemier	TBA	713-309-5225	
PLAN Resource Unit – Charlie	EPA – Contractor	Sheanna Davis	TBA	440-645-4579	
PLAN Data Management Unit	TCEQ	Karen Fuente	TBA	TBA	
PLAN Data Management Unit	EPA – Contractor	Alfred Valdez	TBA	TBA	
PLAN Data Management Unit	EPA – Contractor	Daniel Muzrall	TBA	603-305-9103	
PLAN Data Management Unit - Bravo	EPA - Contractor	Matt Place	512-964-3385	512-964-3385	
PLAN Data Management Unit - Bravo	EPA - Contractor	Brian Broussard	512-496-5415	512-496-5415	
PLAN Data Management Unit - Charlie	EPA - Contractor	Ping Wang	972-977-1684	972-977-1684	
PLAN Data Management Unit - Charlie	EPA - Contractor	Darren Gabriel	830-237-7527	830-237-7527	
PLAN Documentation Unit	EPA	Derek Ragan	TBA	TBA	
LOGISTICS Section					
LOGS Section Chief	EPA	Dave Bradely	214-789-9182	214-789-9182	
LOGS Deputy Section Chief	EPA - Contractor	Chantelle Billiot	832-347-3650	832-347-3650	
LOGS Service Branch Director	EPA	Eric Paisley	214-789-8750	214-789-8750	
LOGS Admin Assistant Documentation	EPA	Ellen Berry	214-326-4572	214-326-4572	
LOGS START COMMS Unit	EPA - Contractor	Ken Ferguson	214-316-6562	214-316-6562	8816-414-93717(Sat Phn)
LOGS START COMMS Unit	EPA - Contractor	Jose Cervantes	972-978-9012	972-978-9012	
LOGS Medical Unit Ldr	EPA	Michael Baumann	817-913-2540	817-913-2540	
LOGS Ground Support Unit Leader	EPA	Alma Horvath	817-538-1212	817-538-1212	
LOGS Support Branch	EPA	Lisa Bokun	214.325.3183	214.325.3183	

ICS 205a-EPA Phone List

Position	Agency	Name	Site #	Cell #	Work #
FINANCE Section					
FIN Section Chief	EPA	Kathleen Robinson	972-569-0714	972-569-0714	
FIN Section Chief FTL	EPA – Contractor	Heth Parnell	972-977-8683	972-977-8683	
FIN Cost Unit	USCG	Ashley Tucker	TBA	TBA	
FIN Cost Unit	EPA	Cindy Brown	214-789-9283	214-789-9283	
FIN Time Unit	USCG	Brandon Westbrook	TBA	TBA	
FIN Time Unit	EPA - Contractor	Lucas Gravely	908-696-0268	908-696-0268	
FIN Procurement Unit	EPA - Contractor	Danny Newman	TBA	713-301-7702	
FIN Procurement Unit	USCG	Larry Autrey	TBA	TBA	
OPS Section Chief	EPA	Nicolas Brescia	214-789-8383	214-789-8383	
OPS Deputy Section Chief	EPA	Bill Rhotenberry	214-437-9804	214-437-9804	
OPS	USCG	Ryan Dickson	251-680-1066	251-680-1066	
OPS FTL	EPA – Contractor	Heth Parnell	972-977-8683	972-977-8683	
OPS	ERRS	John Foster	985-788-8649	985-788-8649	
OPS	EPA – Contractor	John Pendland	214-755-8795	214-755-8795	
OPS ASPECT Air Recon	EPA	Mark Thomas	816-718-4271	816-718-4271	
OPS Environmental Sampling Branch	EPA - Contractor	Brenda McCaleb	TBA	713-256-9566	
OPS Air Ops	EPA – Contractor	John Penland	214-755-8795	214-755-8795	
OPS Alpha Branch					
Branch Director	EPA	Eric Nold	816.718.4274	816.718.4274	
Branch	USCG	Jereme Altendorf	TBA	415-720-4170	
Branch	TCEQ	Bob Brock	TBA	TBA	
Branch	TCEQ	Walter Rodriguez	TBA	TBA	
ER/Recovery Team 1	EPA	Manuel Schmaedick	TBA	816-806-2534	
ER/Recovery Team 1	EPA - Contractor	Tom Walzer	TBA	713-705-1467	
ER/Recovery Team 2	EPA	Susan Fisher	TBA	816-718-4285	
ER/Recovery Team 3	USCG	Steve Wilkes	TBA	251-680-8639	

ICS 205a-EPA Phone List

Position	Agency	Name	Site #	Cell #	Work #
Recon Team 1	EPA	Clarence Jackson	TBA	832-414-8431	
Recon Team 2	EPA	L.C. Miner	TBA	281-889-8531	
Recon Team 3	TCEQ	Martin Kelly	TBA	713-412-4377	
Recon Team 4	USCG	Burris	TBA	251-680-9174	
Recon Team 5	USCG	Anderson	TBA	251-680-9137	
Recon Team 6	USCG	Wagner	TBA	954-540-9838	
Recon Team 7	USCG	Brewer	TBA	252-267-4811	
Site Assessment Team	USCG	Brockhouse	TBA	630-336-0278	
RP – Removal Team 2	USCG	Vannater	TBA	617-816-0757	
RP – Removal Team 3	USCG	Lindsey	TBA	251-680-9775	
RP – Removal Team 4	USCG	Miller	TBA	631-747-5064	
RP – Removal Team 5	USCG	Anderson	TBA	251-680-9137	
Fund Lead – Removal Team 1	USCG	Priest	TBA	808-258-7025	
Fund Lead – Removal Team 2	USCG	Joeckel	TBA	603-828-5034	
Fund Lead - Removal Team 3	USCG	Leitinger	TBA	609-558--0790	
Fund Lead Documentation Team (FPN)	USCG	Beck	TBA	207-400-9616	
Air Monitoring Team 1	EPA – Contractor	Ray Anderson	TBA	713-594-3255	
Air Monitoring Team 2	EPA – Contractor	Tim Borman	TBA	847-363-4919	
Infrastructure Group Leader	EPA	Dawn Ison	TBA	972-974-2075	
Infrastructure Assessment Team 1 (Drinking Water)	EPA	William Davis	TBA	214-316-7865	
Infrastructure Assessment Team 2 (Drinking Water)	EPA	Andy Waite	TBA	214-587-7859	
Infrastructure Assessment Team 3 (Drinking Water)	EPA	Damon McElroy	TBA	214-490-3571	
Infrastructure Assessment Team 1 (Waste Water)	EPA	Mike Tilman	TBA	214-681-6587	
Infrastructure Assessment Team 2 (Waste Water)	EPA	Brian Mueller	TBA	214-681-6089	
Infrastructure Assessment Team 3 (Waste Water)	EPA	Alan Vaughn	TBA	214-707-4226	
Infrastructure Assessment Team 4 (Waste Water)	EPA	Mike Williams	TBA	713-409-9505	
Infrastructure Assessment Team 5 (Waste Water)	EPA	James Eng	TBA	713-385-6774	

ICS 205a-EPA Phone List

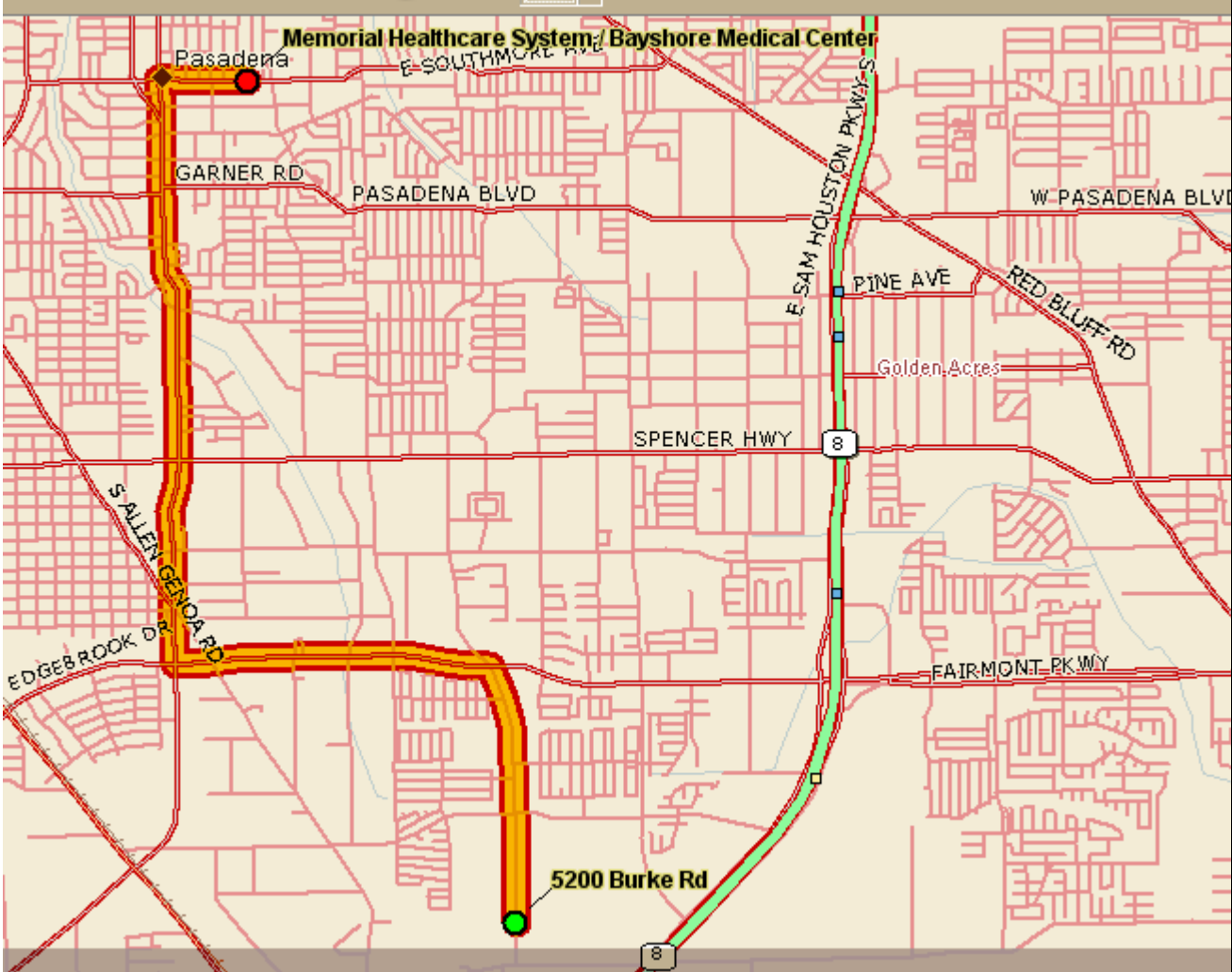
Position	Agency	Name	Site #	Cell #	Work #
Infrastructure Assessment Team 6 (Waste Water)	EPA	Jim Gold	TBA	713-705-1324	
OPS Bravo Branch					
Branch Director	EPA	Eric Delgado	214-437-9809	214-437-9809	
Branch	USCG	Pete Zauner	TBA	TBA	
TCEQ/Branch	TCEQ	Tom Erny	TBA	903-780-9414	
Recon Group	EPA-Contractor	Brendan Hughes	TBA	832-367-9260	
ER/Recovery Team 1	EPA	Mark Hayes	TBA	214-232-7134	
ER/Recovery Team 1	EPA - Contractor	Lindsay Reeve	TBA	713-410-8552	
ER/Recovery Team 2	EPA	Jhana Enders	214-789-9654	214-789-9654	
ER/Recovery Team 2	EPA - Contractor	Jeff McCully	TBA	214-686-4191	
ER/Recovery Team 3	USGC	Darrell Greep	TBA	609-351-8512	
ER/Recovery Team 3	EPA-Contractor	Kevin Gate	TBA	248-978-6890	
ER/Construction Team	ERRS	Don Edgington	TBA	251-406-0220	
Removal Team 1	TGLO	Johnny Darcy	TBA	409-659-9014	
Removal Team 1	USCG	MST3 Schad	TBA	480-388-5636	
Removal Team 1	USCG	MK1 Rick Mantici	TBA	609-351-8523	
Removal Team 2	USCG	MST3 Cory McDoughal	TBA	409-719-5044	
Removal Team 2	USCG	MK2 Moore	TBA	609-351-8517	
Removal Team 2	TGLO	Jim Williams	TBA	409-659-9014	
Removal Team 3	USCG	LJG Phillip Nail	TBA	409-719-1607	

ICS 205a-EPA Phone List

OPS Charlie Branch					
Branch Director	EPA	Gary Moore	214-789-1627	214-789-1627	
Branch	TCEQ	Jeff Lewellin	TBA	512-796-1216	
Branch	EPA – Contractor	Jody Dillon	TBA	TBA	
Recon Team 1	CST	Kuykendall	TBA	512-233-9332	
Recon Team 1	TCEQ	Carol McGrath	TBA	367-633-1525	
Recon Team 1	EPA- Contractor	Matt Smith	TBA	281-638-3875	
Recon Team 2	CST	Delano	TBA	512-233-9331	
Recon Team 2	EPA- Contractor	Dennis Crowl	TBA	361-441-4763	
Recon Team 3	TCEQ	Roger Bennett	TBA	361-537-7919	
Recon Team 3	TCEQ	Barbara Beymon	TBA	361-774-3369	
Recon Team 3	EPA	Mike McAteer	TBA	214-354-9371	
Recon Team 4	CST	Longoria	TBA	512-922-5798	
Recon Team 4	EPA- Contractor	Rebecca Ayres	TBA	281-770-7604	
Recon Team 5	CST	Hickman	TBA	512-233-9318	
Recon Team 5	EPA- Contractor	John Dougherty	TBA	469-644-2477	
Recon Team 6	CST	Garcia	TBA	512-233-9337	
Recon Team 6	EPA- Contractor	Gary McCoig	TBA	361-779-0399	
Recovery Supervisor	TCEQ	Jeff Kunze	TBA	512-789-8557	
Recovery Team 1	TCEQ	Travis Prater	TBA	512-537-7916	
Recovery Team 1	OMI	Dan Lytle	TBA	281-830-7062	
Recovery Team 2	TCEQ	Cain Cline	TBA	325-656-4409	
Recovery Team 2	OMI	Les Hart	TBA	281-830-4943	
Recovery Team 3	TCEQ	Chris Mayben	TBA	325-234-5695	
Recovery Team 3	OMI	Matt Snyder	TBA	832-435-0748	
Recovery Team 4	TCEQ	Paul Gorman	TBA	817-675-4236	
Recovery Team 5	TCEQ	Kara Allen	TBA	817-929-2827	
ERTeam 1	TCEQ	Jeff Kunze	TBA	512-789-8557	

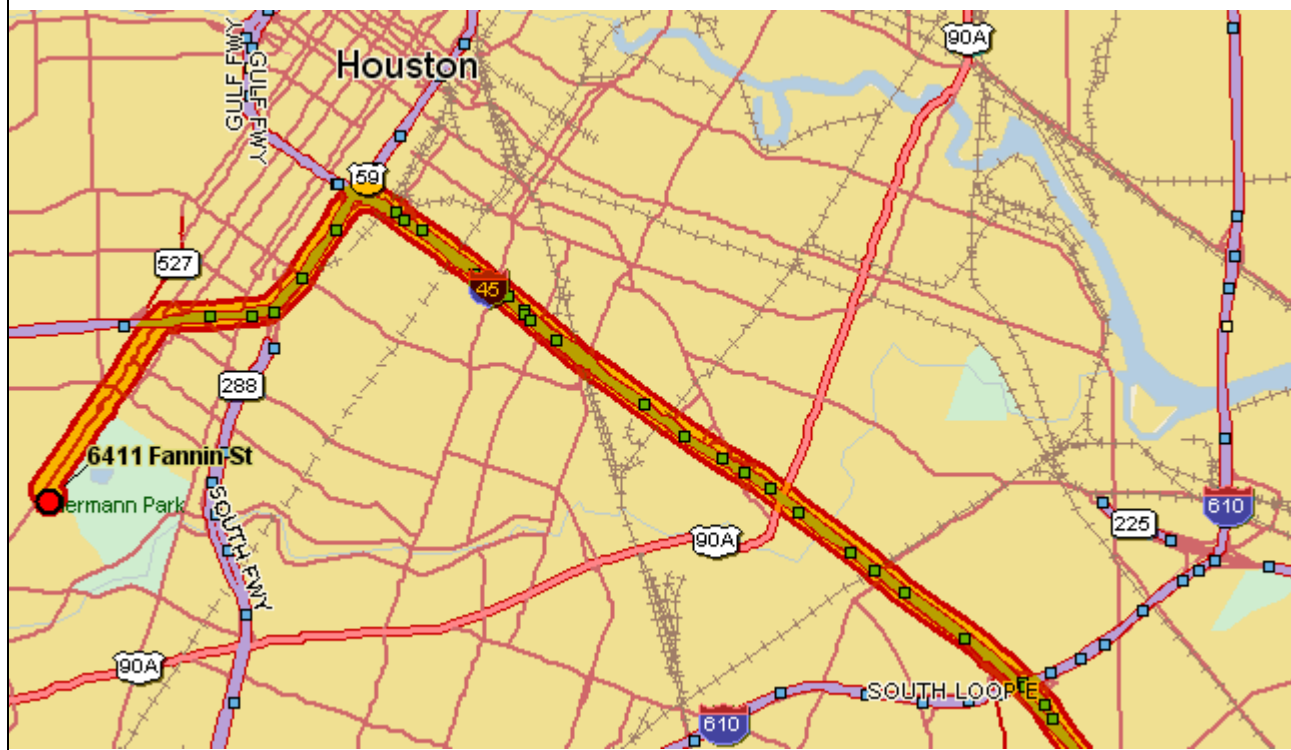
1. Incident Name R6 Hurricane Ike	2. Date Prepared 9/21/2008	3. Time Prepared	4. Operational Period 09/26/2008 through 09/29/2008		ICS 206-EPA MEDICAL PLAN IMT/Alpha Branch	
5. Incident Medical Aid Station						
Medical Aid Stations	Location				Paramedics	
	See Emergency Procedures below					
6. Transportation						
A. Ambulance Services						
Name	Address			Phone	Paramedics	
911	See Hospitals			911	Yes	
ETMC	213 West Southmore Avenue, Ste 300			713.473.7375	Yes	
B. Incident Ambulances						
Name	Location				Paramedics	
7. Hospitals						
Name	Address	Travel Time		Phone	Helipad	Burn Center
		Air	Grnd			
Primary—Bayshore Medical Center	4000 Spencer Highway, Pasadena, TX			ER-713.359.1441 General-713.359.2000	Yes	Yes
Secondary—Fairmont Emergency Care Center	6002 Fairmont Parkway, Pasadena, TX			ER—713.359.4949 General—713.359.2100	No	No
8. Medical Emergency Procedures						
1. Call 911 2. Initiate First Aid 3. Notify Safety Officer 4. Hospital Phone 5. Poison Control 1-800-222-1222 6. Pasadena Volunteer Fire Department, 281.536.3212 (non emergency) 7. HOUSTON FIRE DEPARTMENT HAZMAT – STATION #22, 7825 HARRISBURG, 77012 713-928-6711						
9. Prepared by (Deputy Planning Section Chief) Randy Schademann (EPA)				10. Reviewed by (Safety Officer) David Eppler (EPA)		

Hospital Route Map
Pasadena IMT to Bayshore Medical Center



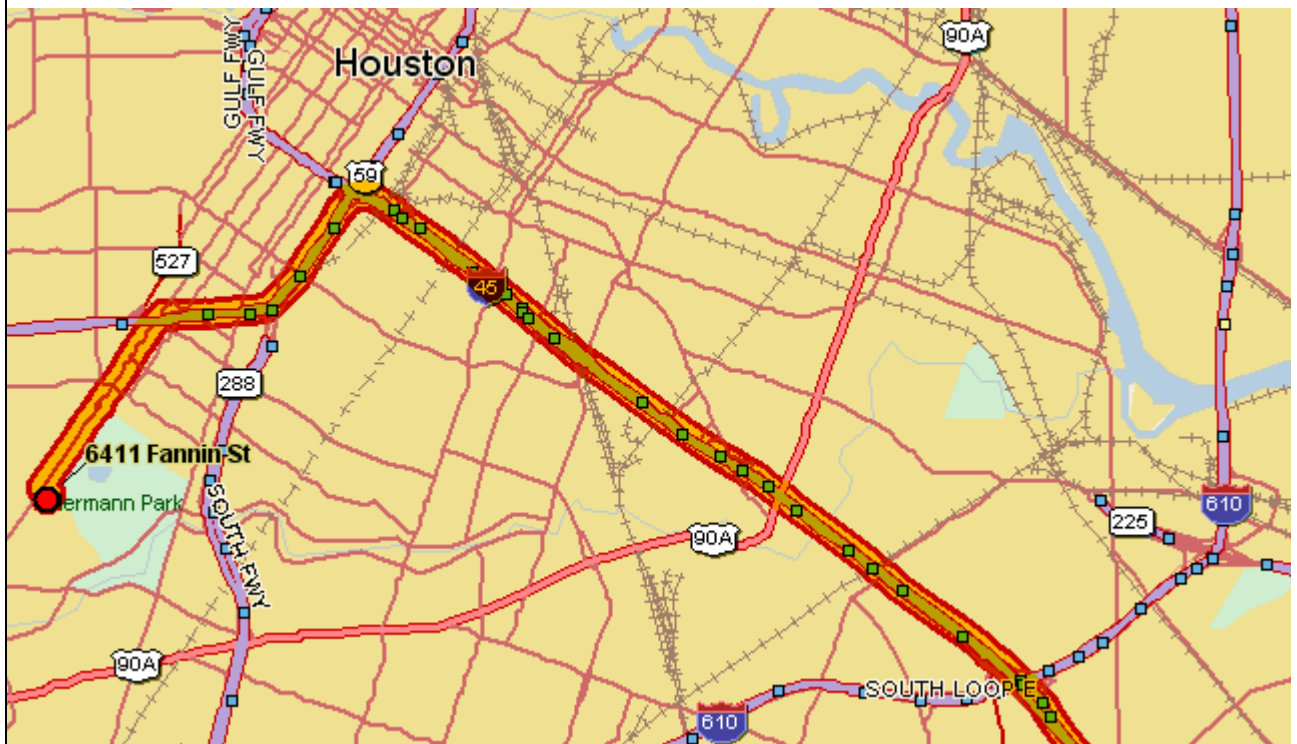
1. Incident Name R6 Hurricane Ike	2. Date Prepared 9/21/2008	3. Time Prepared	4. Operational Period 09/26/2008 through 09/29/2008		ICS 206-EPA MEDICAL PLAN Bravo Branch (Port Arthur/Beaumont)	
5. Incident Medical Aid Station						
Medical Aid Stations	Location				Paramedics	
	Dial 911					
6. Transportation						
A. Ambulance Services						
Name	Address			Phone	Paramedics	
911	See Hospitals			911	Yes	
Beaumont EMS	2870 Laurel			409.832.2942	Yes	
B. Incident Ambulances						
Name	Location				Paramedics	
7. Hospitals						
Name	Address	Travel Time		Phone	Helipad	Burn Center
		Air	Grnd			
St Elizabeth	2830 Calder Ave, Beaumont			409.892.7171	Yes	No
Baptist	3080 College, Beaumont			409.212.5000	Yes	No
8. Medical Emergency Procedures						
1. Call 911 2. Initiate First Aid 3. Notify Safety Officer 4. Hospital Phone 5. Poison Control 1-800-222-1222						
9. Prepared by (Deputy Planning Section Chief) Randy Schademmann (EPA)				10. Reviewed by (Safety Officer) David Eppler (EPA)		

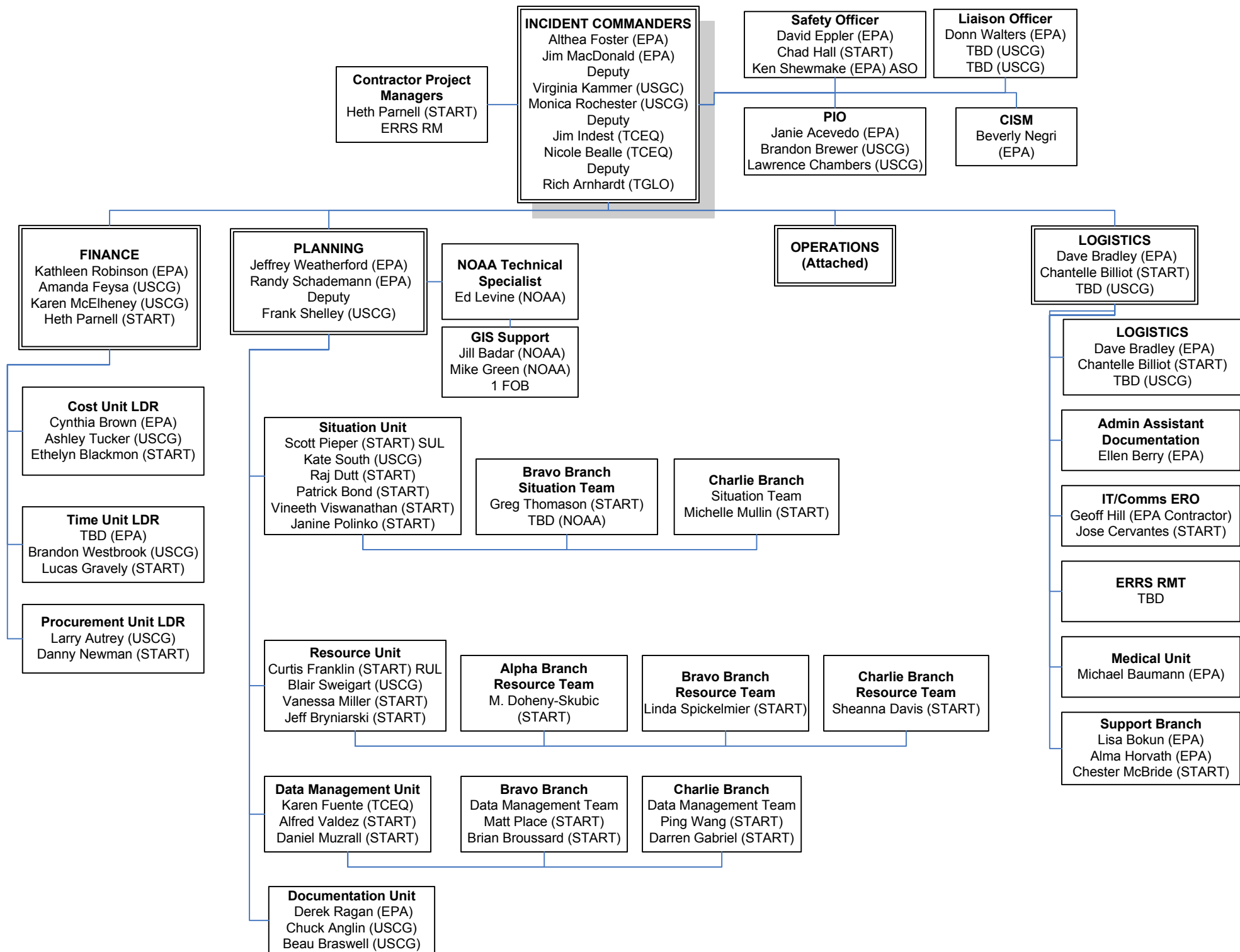
A detailed map of the Ball High School / High School / Galveston Independent School District. The school boundary is highlighted in red, following a path from the west side of the map, through the center, and turning south on the right side. The map shows a grid of streets including Avenue R, Avenue M 1/2, Avenue P 1/2, and various numbered streets from 38th to 56th. A green dot marks the school location at the intersection of 42nd St and Sealy Rear St. The map also shows the Gulf of Mexico to the west and the Galveston Bay Bridge to the east.

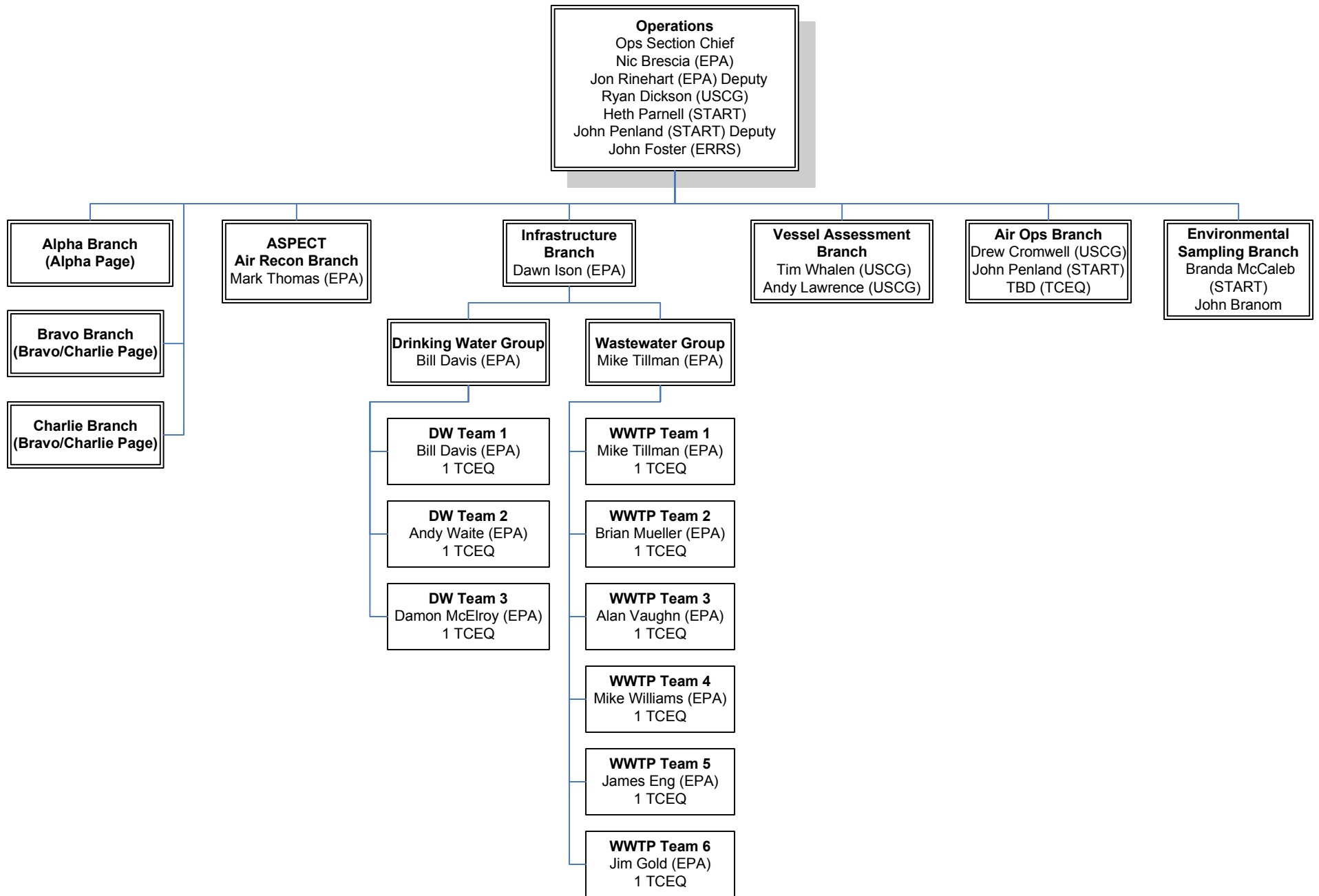


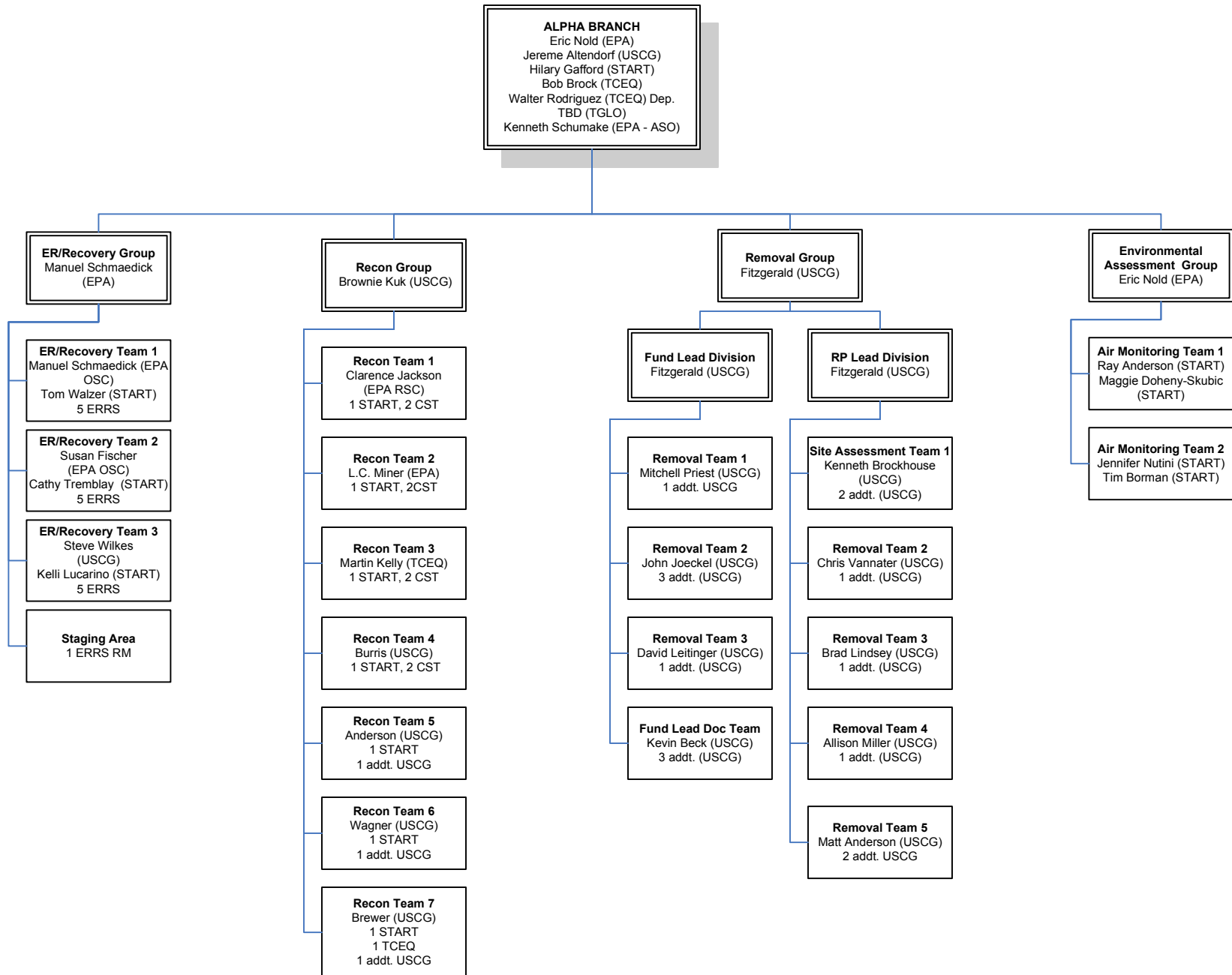
1. Incident Name R6 Hurricane Ike	2. Date Prepared 9/21/2008	3. Time Prepared	4. Operational Period 09/26/08through 09/29/200	ICS 206-EPA MEDICAL PLAN Charlie Branch (Galveston)		
5. Incident Medical Aid Station						
Medical Aid Stations	Location				Paramedics	
UTMB	301 University Blvd					
Ball High School	4115 Avenue O				Yes	
6. Transportation						
A. Ambulance Services						
Name	Address			Phone	Paramedics	
911	See Hospitals			911	Yes	
Galveston EMS	1207 Oak Street, LaMarque, Tx			409.938.2424	Yes	
B. Incident Ambulances						
Name	Location				Paramedics	
7. Hospitals						
Name	Address	Travel Time		Phone	Helipad	Burn Center
		Air	Grnd			
Hermann Memorial Hospital	6411 Fannin St, Houston			713.704.4000	Yes	Yes
Primary—Bayshore Medical Center	4000 Spencer Highway, Pasadena, TX			ER—713.359.1441 General—713.359.2000	Yes	Yes
Secondary—Fairmont Emergency Care Center	6002 Fairmont Parkway, Pasadena, TX			ER—713.359.4949 General—713.359.2100	No	No
8. Medical Emergency Procedures						
1. Call 911 2. Initiate First Aid 3. Notify Safety Officer 4. Hospital Phone 5. Poison Control 1-800-222-1222						
9. Prepared by (Deputy Planning Section Chief) Randy Schademann (EPA)				10. Reviewed by (Safety Officer) David Eppler (EPA)		

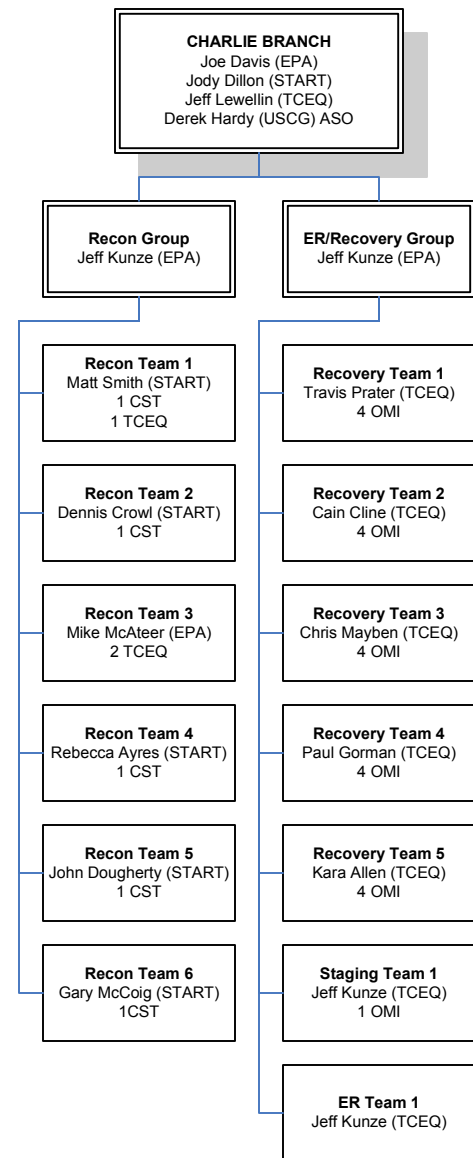
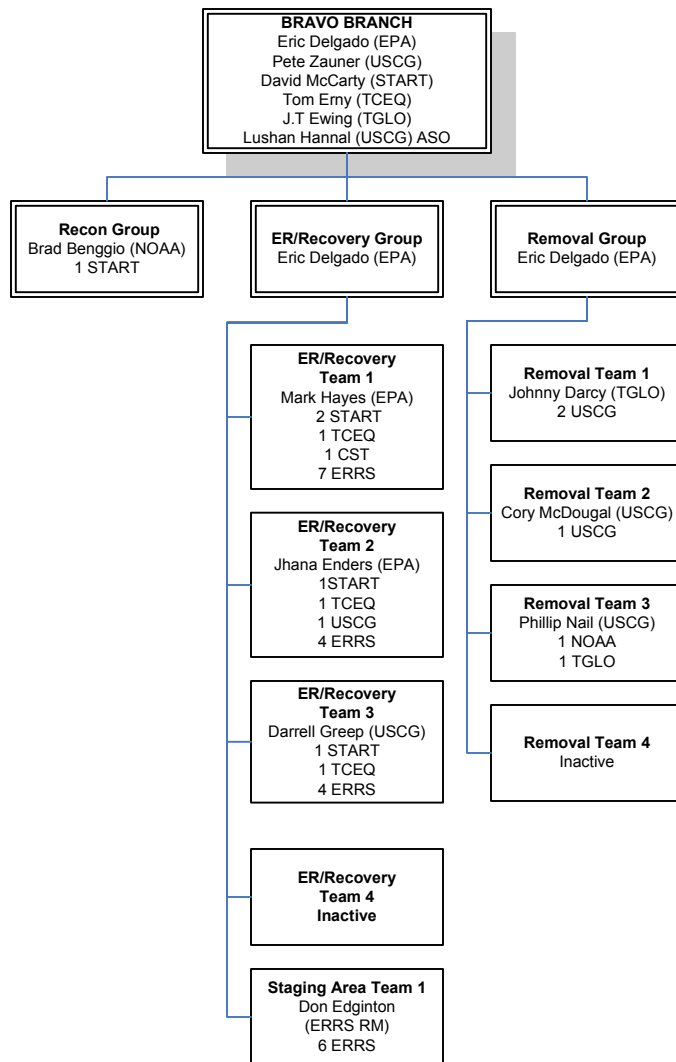
Route map from Division C to Hermann Memorial



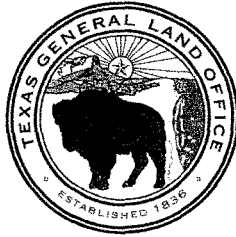








1. Incident Name Hurricane Ike EFS-10		2. Operational Period (Date/Time) From: 0700 26 Sept 08 To: 0700 29 Sept		DAILY MEETING SCHEDULE ICS 230-CG	
3. Meeting Schedule (Commonly-held meetings are included)					
Date/ Time	Meeting Name	Purpose	Attendees	Location	
26 Sept 0700	Operations Briefing	Present IAP and assignments to the Supervisors / Leaders for the next Operational Period.	IC/UC, Command & General Staff, Branch Directors, Div/Gru Sups., Task Force/Strike Team Leaders and Unit Leaders	Main Gym Room	
0830	Unified Command Objectives Meeting	Review/ identify objectives for the next operational period.	Unified Command members	General Meeting Room	
0900	Command & General Staff Meeting	IC/UC gives direction to Command & General staff including incident objectives and priorities	IC/UC, Command & General Staff	General Meeting Room	
27 Sept 0700	Operations Briefing	Present IAP and assignments to the Supervisors / Leaders for the next Operational Period.	IC/UC, Command & General Staff, Branch Directors, Div/Gru Sups., Task Force/Strike Team Leaders and Unit Leaders	Main Gym Room	
0830	Unified Command Objectives Meeting	Review/ identify objectives for the next operational period.	Unified Command members	General Meeting Room	
0900	Command & General Staff Meeting	IC/UC gives direction to Command & General staff including incident objectives and priorities	IC/UC, Command & General Staff	General Meeting Room	
1500	Tactics Meeting	Develop/Review primary and alternate Strategies to meet Incident Objectives for the next Operational Period.	PSC, OSC, LSC, RESL & SITL	General Meeting Room	
28 Sept 0700	Operations Briefing	Present IAP and assignments to the Supervisors / Leaders for the next Operational Period.	IC/UC, Command & General Staff, Branch Directors, Div/Gru Sups., Task Force/Strike Team Leaders and Unit Leaders	Main Gym Room	
0845	UC Meeting	Review and Discuss open actions, policy and other UC issues	UC, PSC facilitates, DOCL for record keeping	General Meeting Room	
0900	CMD and General Staff	IC/UC gives direction to Command & General staff including incident objectives and priorities	IC/UC, Command & General Staff	General Meeting Room	
1100	Planning Meeting	Review status and finalize strategies and assignments to meet Incident Objectives for the next Operational Period.	IC/UC, Command and General Staff – others as directed by UC	General Meeting Room	
4. Prepared by: (Situation Unit Leader) F.L.Shelley			Date/Time 160024 Sept 2008		



Hurricane Ike Decision Memo.

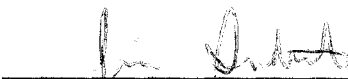
Subject: ***Decanting Operations on active pollution cases***

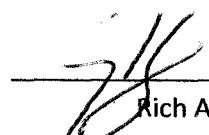
Reference: Decanting Policy (3240.2 One Gulf Plan)

1. Decanting can be a vital part of the recovery process. The inability to decant water from recovered oil/water mixtures and return the excess water into the recovery area significantly reduces the volume of available temporary storage capacity, reducing the effectiveness of on-water skimming and recovery operations. The inability to return the excess water containing some amount of oil will delay recovery operations and possibly lead to a complete cessation of recovery operations until additional temporary storage can be arranged.
2. It is essential that the return of oil and oily water associated with the mechanical recovery process be clearly authorized so that responders are not placed at legal risk when carrying out recovery operations. No pre-approval for decanting exists within the One Gulf Plan area. However, decanting will be considered on a case-by-case basis by the ESF-10 Unified Command. *The decision to decant remains with the Unified Commanders. No decanting will be carried out without their express approval.*
3. In considering whether to permit decanting, field personnel must provide at a minimum:
 - a. Availability of additional storage locally
 - b. Resources at Risk
 - c. Toxicity of proposed discharge
 - d. Approx amounts of liquid
 - e. Repercussions if decanting is not allowed.
 - f. Location of decanting operations, and relationship to recovery point (is the water being returned to the same general location?)
4. This Policy remains in effect until ESF-10 Operations for Hurricane IKE are terminated, or if recinded by the Unified Commander.


Althea Foster (EPA)


Virginia Kammer (USCG)


Jim Indest (TCEQ)

 - Craig Korte for R. Amhart
Rich Amhart (TGLO)

Cleanup Endpoints and Methods – *Hurricane Ike* Oil Spills, Texas

Conduct cleanup with minimal damage to environmental resources. i.e. Do not drive spilled oils into sediments by foot / mechanical traffic

Shoreline Type	Cleanup Endpoint	Allowable Cleanup Methods
Sand Flats	General: No recoverable surface oil, buried oil layers or tarballs larger than dimes; no more than stain on sand	Manual removal with shovels/rakes and squeegees; small equipment (bobcat) to remove oil and oiled surface and subsurface sand; minimize removal of clean sand on and under oiled layers; Minimize equipment (bobcat) travel over oiled surfaces.
	Special: TBD by SIT (Special Issue Team)	
Sand Beaches; Mixed Sand and Fine Gravel Beaches	General: No recoverable surface oil, buried asphalt pavements or tarballs larger than dimes; no more than stain on gravel	Manual removal with shovels/rakes; minimize removal of clean sediments on/under oiled layers; small equipment (bobcat) to remove oil and oiled surface/subsurface sand and gravel. Minimize small equipment (bobcat) travel over oiled surfaces.
	Special: TBD	Mechanical relocation of fine gravels into piles for flushing, including use of high-pressure/hot-water washing (hotsie), with containment/recovery of released oil; return gravel to original location and contour. Use of heavy equipment will require additional approval.
Course Gravel Beaches/Fill (e.g. cobbles, and larger)	No more recoverable or potentially mobile oil on surface, doesn't rub off on contact	Manual removal of surface oil using low pressure flushing and high-pressure/hot-water washing (hotsie), with containment/recovery of released oil; return gravel to original location and contour. Use of heavy equipment will require additional approval by the SIT.
	Visible heavy product that could be mobilized should be removed. Special: TBD	
Riprap/Stone Seawalls Solid Seawall, Bulkheads and Docks	General: No more recoverable or potentially mobile oil on surface, doesn't rub off on contact	Flushing and high-pressure/hot-water washing (hotsie), as needed. Containment/recovery of released oil.
	Visible heavy product that could be mobilized should be removed. Special: No more recoverable or potential mobile oil on surface; Stop cleanup efforts when all oil is removed other than a stain. Additional cleaning or replacement of riprap may be considered.	In high-public access or special environmental / historic: may request use of SWAs (surface washing agents) or special cleanup efforts for use as need to meet endpoint.

Cleanup Endpoints and Methods – *Hurricane Ike* Oil Spills, Texas

Mud Flats (e.g. soft surface, steps will push oil in sediments)	General: No potentially mobile oil.	To be determined on a site-specific basis.
Marshes & Management Wildlife Areas	General: Oil on vegetation no longer wipes off on contact. No remaining recoverable or potentially mobile oil in accessible areas. (Accessible areas to be identified.)	To be determined on a site-specific basis. Options (cutting, In-situ-Burn, flushing, manual pickup of pooled oil, monitoring) to be determined on site-specific basis.
	Special: Other removal options will be considered by Environmental Unit.	

Oiled Material Recovery Guidelines¹

- Report dead and live wildlife to triage center. Note location and condition.
- Manually remove oiled material that can be easily picked up and bagged.
- For small unoiled material that can be easily picked up, move to the supra tidal zone if it has the potential to become oiled in its current location.
- Leave unoiled material in place if it does not have the potential to become oiled.
- Approved cleaning methods for large oiled material are presented below:

Method	Handling	RRT Approval	Special Permits
Scraping	No	No	No
Wiping	No	No	No
Hotsie	No	No	No

The following options require special approval

Method	Handling	RRT Approval	Special Permits
SWAs	No	Yes	No
Burning	Yes	Yes	Yes

For questions regarding environmental issues, contact the Planning Section.

¹ Non-living oiled material

SHORELINE TYPE CODES

- | | |
|--|--|
| 1 - Seawalls and piers | 6 - Gravel beaches and riprap structures |
| 2 - Exposed wave-cut platforms | 7 - Exposed tidal flats |
| 3 - Fine-grained sand beaches | 8 - Sheltered rocky shores |
| 4 - Coarse-grained sand beaches | 9 - Sheltered tidal flats |
| 5 - Mixed sand and gravel (or shell) beaches | 10 - Fringing and extensive salt marshes |

COUNTERMEASURE

SHORELINE TYPES


	1	2	3	4	5	6	7	8	9	10
1) No Action	C	C	C	C	C	C	C	C	C	C
2) Manual Removal	R	C	R	R	R	R	C	R	C	C
3) Passive Collection (Sorbents)	R	R	C	C	C	C	R	C	R	R
4) Debris Removal	R	R	R	R	R	R	C	R	C	R
5) Trenching			C	C	C	C				
6) Sediment Removal			C	C	C	C				
7) Ambient Water Flooding (Deluge)	R	R	C	C	C	C		C	C	C
8) Ambient Water Washing										
a) Low Pressure (< 50 psi)	C	C			C	C	C	C	C	C
b) High Pressure (< 100 psi)	C					C				
9) Warm Water Washing/Mod.-High Pressure	C	C				C				
10) Hot Water/High Pressure Washing	C					C				
11) Slurry Sand Blasting	C					C				
12) Vacuum	C	C	C	C	C	C	C	C	C	C
13) Sediment Reworking †			C	C	C	C				
14) Excavation, Cleansing, and Replacement			C	C	C	C				
15) Cutting Vegetation *							C		C	C
16) Chemical Treatment †										
a) Oil Stabilization with Elastomizers										
b) Protection of Beaches										
c) Cleaning of Beaches	C	C	C	C						
17) In situ Burning †										C
18) Nutrient Enhancement †	C		C	C	C	C				C
19) Microbial Addition †	C		C	C	C	C				C

* - Cutting will depend on time of year. Consider only if reoiling of birds possible.

† - Requires RRT approval

R - Recommended - may be preferred alternative

C - Conditional

 Do Not Use